

SERVICE MANUAL

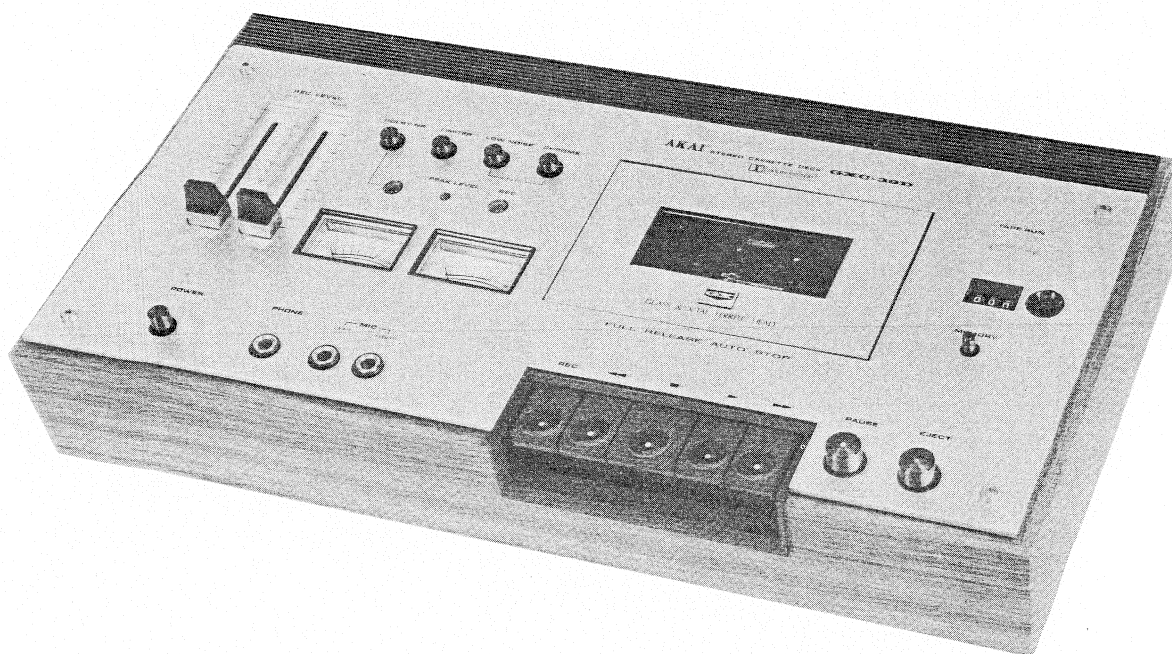
PARTS LIST



AKAI CASSETTE TAPE DECK

MODEL GXC-39D

ALSO APPLICABLE TO MODEL GXC-39



CASSETTE TAPE DECK

MODEL GXC-39D

ALSO APPLICABLE TO MODEL GXC-39

SECTION 1	SERVICE MANUAL	3
SECTION 2	PARTS LIST	23
SECTION 3	SCHEMATIC DIAGRAM	40

SECTION 1

SERVICE MANUAL

TABLE OF CONTENTS

I.	SPECIFICATIONS	4
II.	DISMANTLING OF UNIT	6
III.	ARRANGEMENT OF PRINCIPAL PARTS	7
IV.	MECHANISM ADJUSTMENT	8
	1. EJECT, SLIDE, LOCK ADJUSTMENT	9
	2. PAUSE LEVER ADJUSTMENT	9
	3. ADJUSTMENT OF GAP BETWEEN TAKE-UP REEL TABLE PULLEY AND TAKE-UP WHEEL	9
	4. FAST FORWARD SLIDE POSITION ADJUSTMENT	9
	5. REWIND SLIDE POSITION ADJUSTMENT	11
	6. RECORDING SLIDE POSITION ADJUSTMENT	11
	7. AUTO STOP PLUNGER SOLENOID POSITION ADJUSTMENT	11
	8. PLAY MICRO SWITCH OPERATION ADJUSTMENT	11
	9. REWIND MICRO SWITCH OPERATION ADJUSTMENT	13
	10. REED SWITCH POSITION ADJUSTMENT	13
	11. FLYWHEEL VERTICAL LOOSE PLAY ADJUSTMENT	13
	12. TAKE-UP TORQUE AT VARIOUS MODES AND TORQUE MEASURING METHOD	13
	13. PINCH WHEEL PRESSURE MEASURING METHOD	13
V.	HEAD ADJUSTMENT	14
VI.	AMPLIFIER ADJUSTMENT	15
VII.	DOLBY N.R. CIRCUIT ADJUSTMENT	17
VIII.	D.C. RESISTANCE OF VARIOUS COILS	18
IX.	CLASSIFICATION OF VARIOUS P.C. BOARDS	18
	1. P.C. BOARD INTERCHANGEABILITY CHART	18
	2. COMPOSITE VIEWS OF COMPONENTS	19
X.	PEAK LEVEL INDICATOR OPERATION	22

For basic adjustments, measuring methods, and operating principles, refer to GENERAL OPERATING PRINCIPLES AND ADJUSTMENTS.

I. SPECIFICATIONS

An asterisk next to a figure indicates the minimum guaranteed performance.

TRACK SYSTEM	4 track, 2 channel stereo system
TAPE SPEED	1-7/8 ips. (4.75 cm/sec) $\pm 3\%$
WOW AND FLUTTER	Less than 0.08% W.R.M.S. *Less than 0.24% R.M.S.
TOTAL WOW AND FLUTTER	*Less than 0.3% R.M.S.
FREQUENCY RESPONSE	LOW NOISE TAPE 30 to 14,000 Hz ± 3 dB *50 to 13,000 Hz ± 4 dB CHROME TAPE 30 to 16,000 Hz ± 3 dB *50 to 14,000 Hz ± 4 dB Fe-Cr TAPE 30 to 17,000 Hz ± 3 dB *50 to 14,000 Hz ± 4 dB
DISTORTION FACTOR	Less than 1.5% at 1,000 Hz "0" VU recording
TOTAL DISTORTION FACTOR	LOW NOISE TAPE *Less than 3% at 1,000 Hz "0" VU recording CHROME/Fe-Cr TAPE *Less than 5% at 1,000 Hz "0" VU recording
SIGNAL TO NOISE RATIO	Better than 47 dB *Better than 40 dB
TOTAL SIGNAL-TO-NOISE RATIO	*Better than 40 dB
RESIDUAL NOISE	Less than 10 mV at 8 ohm load
OUTPUT	LINE OUTPUT 0.775V (*0 dBm ± 1.5 dB), using a 333 Hz "0" VU pre-recorded tape. DIN OUTPUT 0.55V
HEADPHONE OUTPUT	30mV/8 ohm, using a 333 Hz "0" VU pre-recorded tape.
SPEAKER OUTPUT	4.5W at 8 ohm, each channel
INPUT/IMPEDANCE	MIC More than 0.3 mV/10 k ohm LINE More than 50 mV/430 k ohm DIN More than 3 mV/30 k ohm
RECORDING/PLAYBACK LEVEL	LOW NOISE TAPE 0 dBm ± 2 dB, 1,000 Hz "0" VU recording CHROME TAPE -3 dBm ± 1.5 dB, 1,000 Hz "0" VU recording
CROSS TALK	Better than 25 dB, 1,000 Hz 3 VU recording
ERASE RATIO	Better than 70 dB, 1,000 Hz 3 VU recording
RECORDING BIAS FREQUENCY	65 ± 3 kHz
BIAS LEAK	Less than -20 VU
RECORDING TIME	90 min. stereo recording using a C-90 cassette tape.
FAST FORWARD AND REWIND TIME	90 sec. using a C-90 cassette tape
HEADS	RECORDING/PLAYBACK HEAD 4 track, 2 channel GX recording/playback head Type: P4-341 Gap: 1.7 microns Impedance: 1,000 ohm $\pm 20\%$ at 1 kHz D.C. Resistance: 190 ohm ERASE HEAD 2 track, 1 channel erase head Type: E4-100 Gap: 0.2 to 0.3 mm Impedance: 730 ohm $\pm 10\%$ at 100 kHz D.C. Resistance: 6.0 ohm

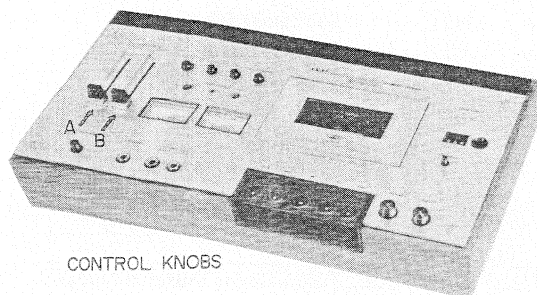
MOTOR	4-pole induction inner rotor motor Type: IB-440 Revolutions: 1,390 $\pm$ 25 r.p.m./1,680 $\pm$ 30 r.p.m. at 50/60 Hz	
TRANSISTOR AND F.E.T.	2SA628(E)(F) . . . 4 (4) 2SA640(E)(F) . . . 1(1) 2SB511(D)(E) . . . 0(2) 2SC458LG(C)(D) . . 4(4) 2SC536(F)(G) . . . 0(2) 2SC711(F)(G) . . . 1(1) 2SC945L(K)(P)(Q)(R) . . . 2(2) 2SC1384 . . . 0(2)	2SC1449(K)(L)(M) . . . 1(1) 2SC1647(R)(S)(E) . . . 18(18) 2SC1648(E)(U) . . . 2(2) 2SC1648(R)(S)(E) . . . 2(2) 2SD360(D)(E) . . . 1(1) 2SD325(D)(E) . . . 0(2) 2SK34(D) . . . 2(2)
DIODE	1N60 . . . 6(6) 1N4001 . . . 5(5) 1S2473VE . . . 11(11)	WZ085 . . . 1(1) WZ192 . . . 1(1)
VARISTOR	VD1213 . . . 0(2)	
THERMISTOR	112203-2 . . . 0(2)	
POWER REQUIREMENT	110 to 120V/220 to 240V A.C., 50/60 Hz for Universal Models 100V A.C., 50/60 Hz for JPN Models 220V A.C., 50 Hz for CEE, BSI Models 120V A.C., 60 Hz for CSA Models Notice: JPN, CEE, and BSI Models come in Model GXC-39D only	
POWER CONSUMPTION	18W: GXC-39D 35W: GXC-39	
DIMENSIONS	440(W) $\times$ 116(H) $\times$ 229(D) mm (17.3" $\times$ 4.6" $\times$ 9")	
WEIGHT	6.3 kg. (13.9 lbs.)	

- NOTES:
1. The Transistors, F.E.T., Diodes, Thermistors, and Varistors for Model GXC-39 are shown in parentheses.
 2. Specifications subject to change without notice.

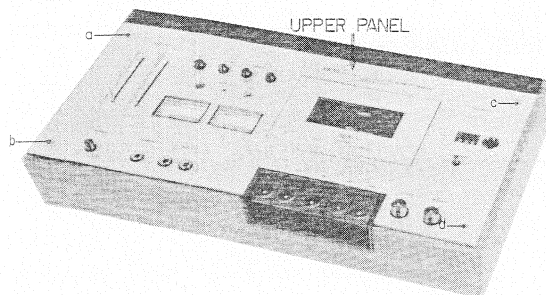
II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

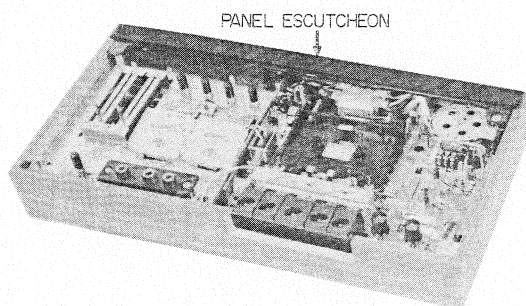
1



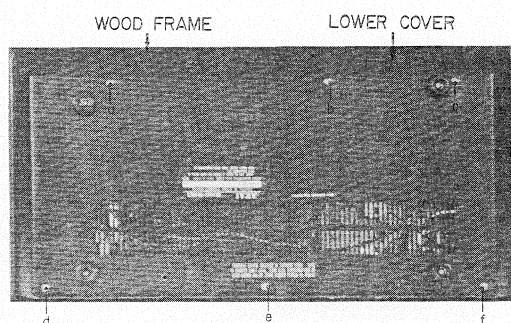
2



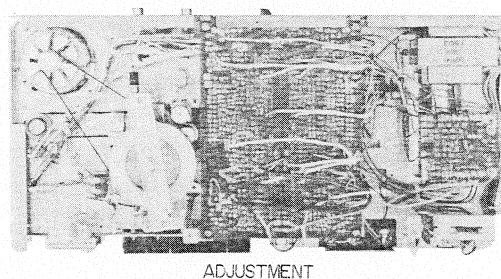
3



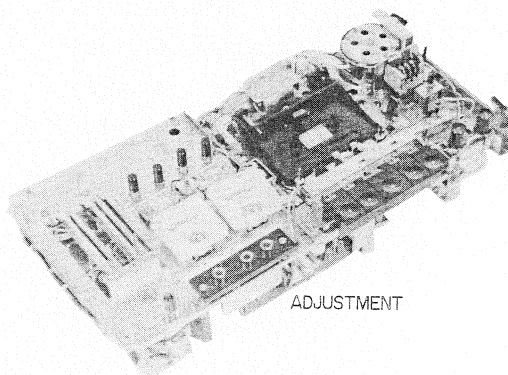
4



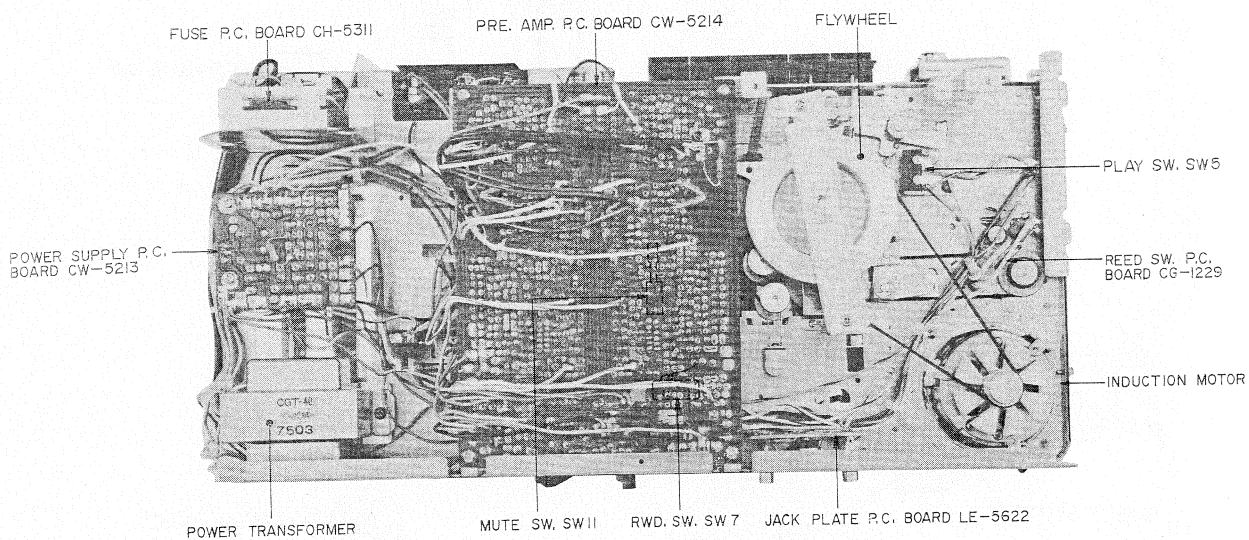
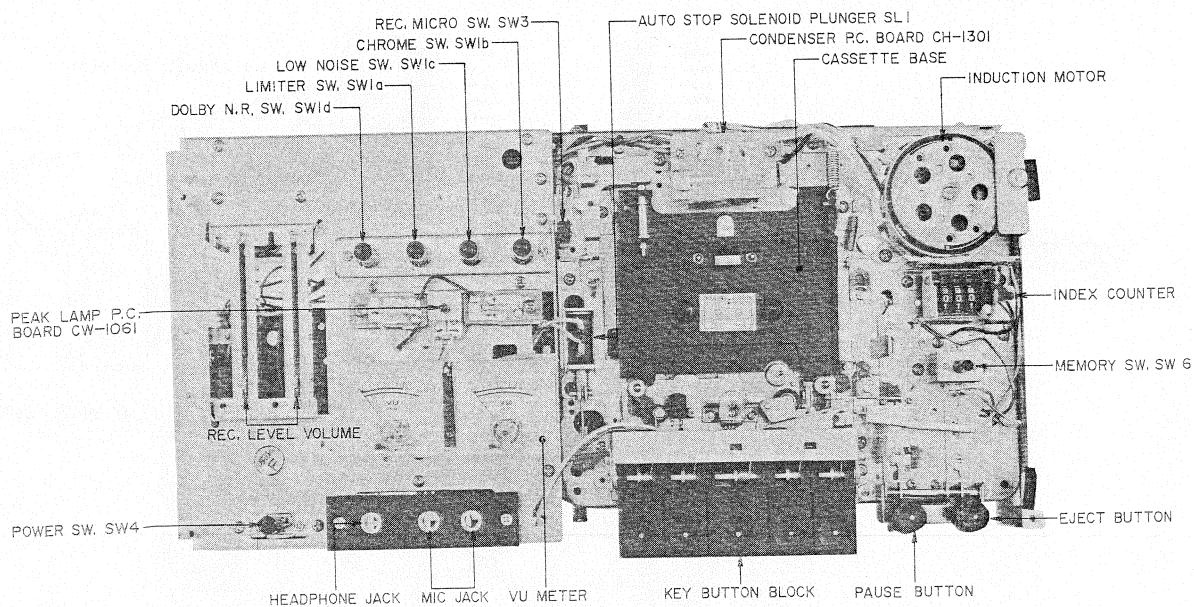
5



6



III. ARRANGEMENT OF PRINCIPAL PARTS



IV. MECHANISM ADJUSTMENT

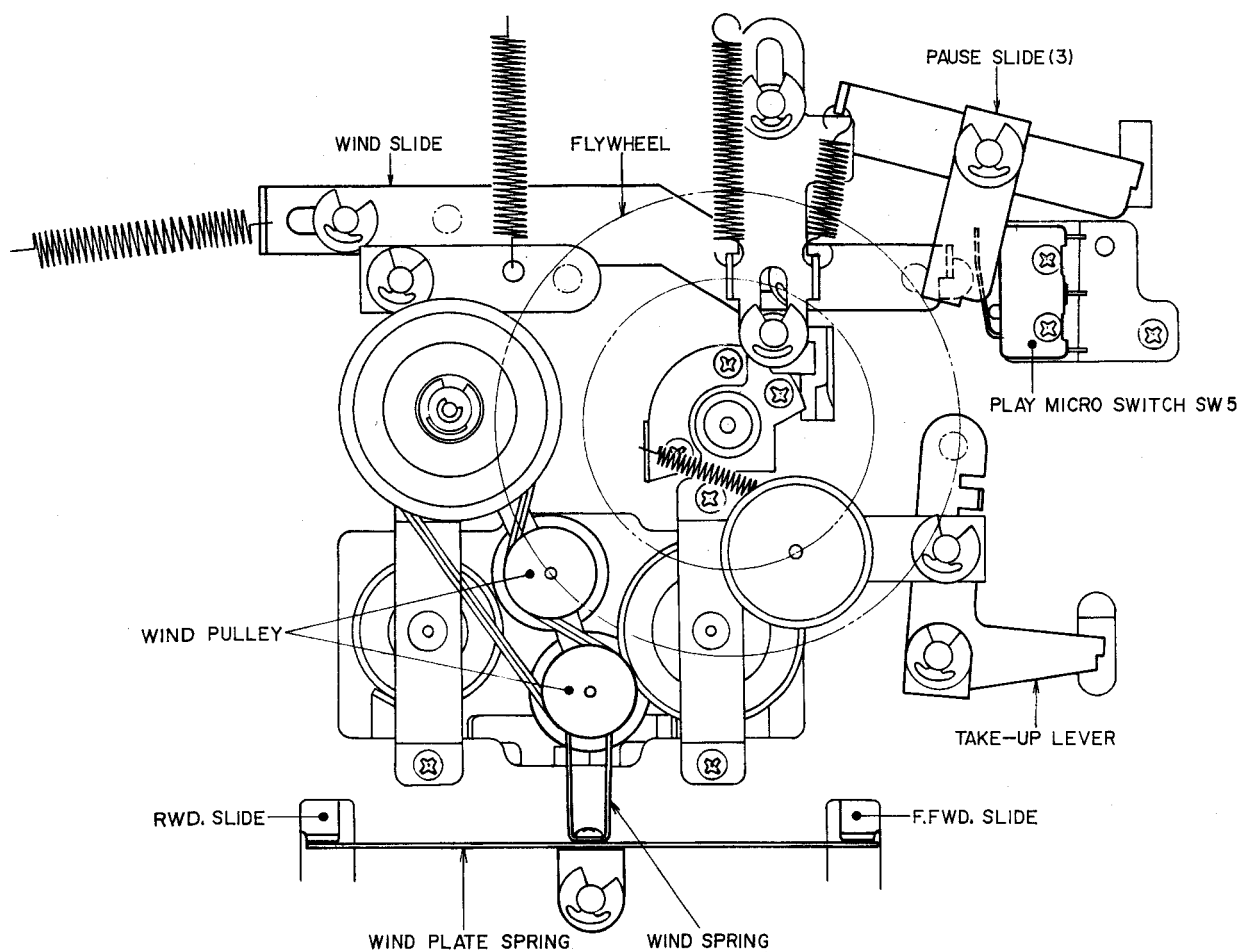


Fig. 1

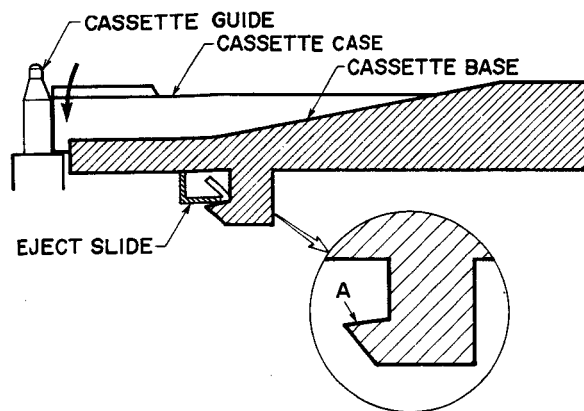


Fig. 2

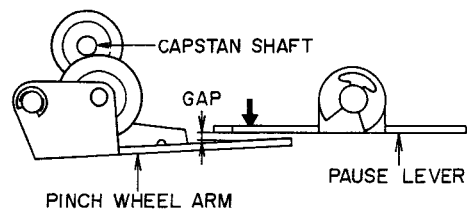


Fig. 3

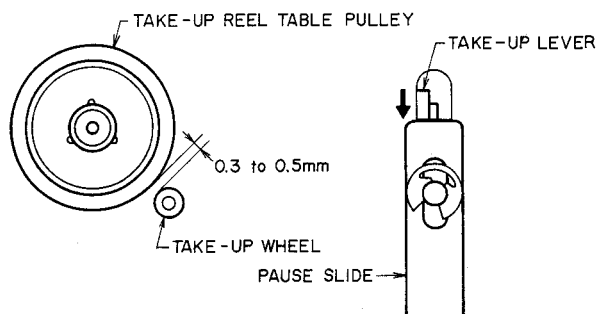


Fig. 4

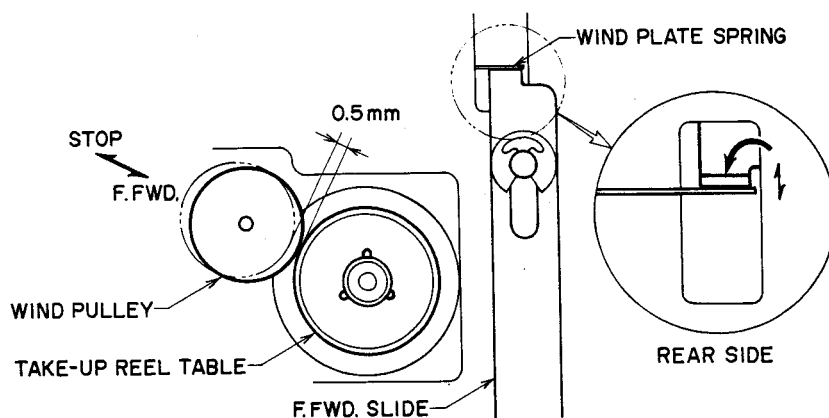


Fig. 5

1. EJECT, SLIDE, LOCK ADJUSTMENT (Refer to Fig. 2)

Confirm that the cassette case pushes the cassette guide and that when it reaches the perfectly lowered position, the cassette base is locked by the eject slide hook. If locking is not smooth or does not take place, adjust for perfect locking by filing off the uneven edges etc. of A surface of the cassette base.

2. PAUSE LEVER ADJUSTMENT (Refer to Fig. 3)

Bend the part of the pause lever indicated by the arrow mark in Fig. 3 so that when the machine is set to play mode, the gap between the pinch wheel arm and pause lever is more than 0.5mm.

Also confirm that when the machine is set to pause mode, the pinch wheel completely separates from the capstan shaft.

3. ADJUSTMENT OF GAP BETWEEN TAKE-UP REEL TABLE PULLEY AND TAKE-UP WHEEL (Refer to Fig. 4)

Adjust by bending the Take-up Lever in direction indicated by the arrow mark in Fig. 4 so that when the machine is set from playback to pause mode the take-up wheel completely separates from the Take-up Reel Table Pulley and further this gap is from 0.3 to 0.5 mm.

4. FAST FORWARD SLIDE POSITION ADJUSTMENT (Refer to Fig. 5)

Adjust bend of Fast Forward Slide so that when from Fast Forward mode, the Fast Forward and Stop Keys are gently released simultaneously, the wind pulley separates from the Take-Up Reel and this gap width is 0.5mm.

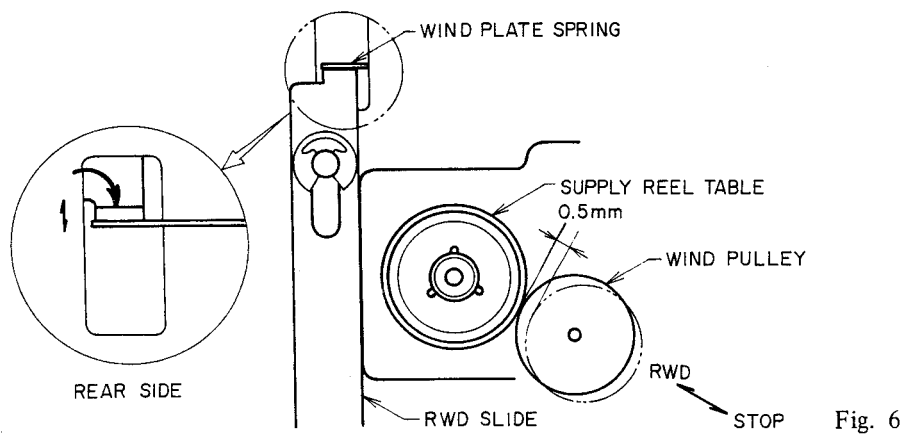


Fig. 6

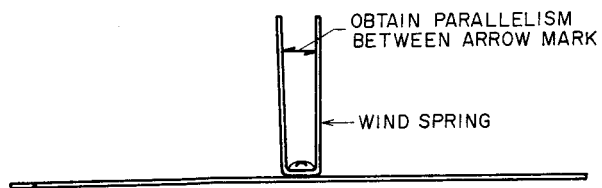


Fig. 7

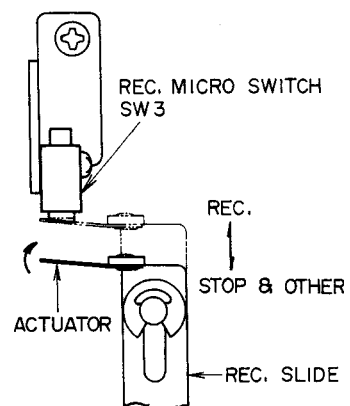


Fig. 8

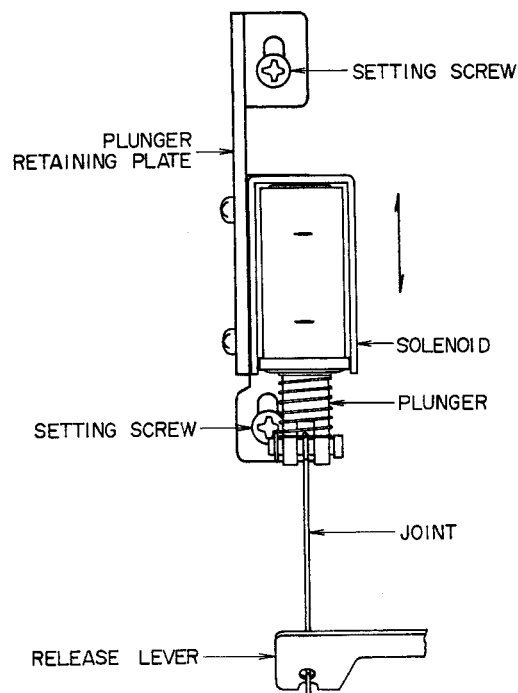


Fig. 9

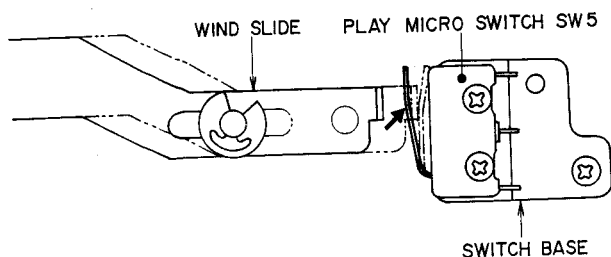


Fig. 10

5. REWIND SLIDE POSITION ADJUSTMENT (Refer to Fig. 6)

Adjust bend of Rewind Slide so that when from Rewind mode, the Rewind and Stop keys are gently released simultaneously, the wind pulley separates from the Supply Reel Table and this gap width is 0.5 mm.

NOTE: In the event that by bending the F.Fwd and Rewind Slides, a 0.5 mm gap on both cannot be attained, check the wind spring for parallelism. If it is not parallel, remove and bend wind spring by hand to attain parallelism.

6. RECORDING SLIDE POSITION ADJUSTMENT (Refer to Fig. 8)

At stop mode, adjust by bending the actuator (phosphor bronze plate) shown in Fig. 8 toward arrow so that when the machine is set to recording mode, the actuator on the recording slide pushes recording micro switch SW3 properly.

7. AUTO STOP PLUNGER SOLENOID POSITION ADJUSTMENT (Refer to Fig. 9)

- 1) Loosen setting screw and move solenoid as indicated by the arrow mark in the figure.
- 2) Set machine to Fast Forward mode and when the plunger has fully entered the center of the solenoid, fix solenoid setting screws at place at which the solenoid is moved to the rear, the keyboard release lever is drawn, and Fast Forward is released.

Reference: After Automatic Stop Plunger Solenoid position adjustment has been completed, supply a 10% lower voltage than specified power source and confirm that automatic stop functions perfectly from recording and playback modes.

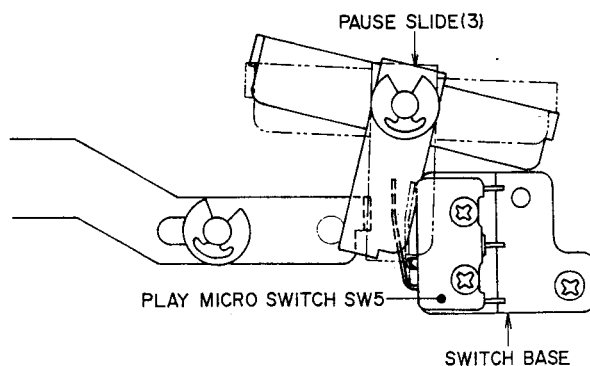


Fig. 11

8. PLAY MICRO SWITCH OPERATION ADJUSTMENT (Refer to Fig. 10 and 11)

- 1) Adjust by bending the actuator (phosphor bronze plate) as indicated by the arrow mark in the Fig. 10 so that when the machine is set to F.FWD or RWD mode, the wind slide pushes play micro switch properly.
- 2) Because at playback mode, this micro switch is pushed by pause slide (3), confirm that the micro switch is perfectly turned ON at playback mode also.

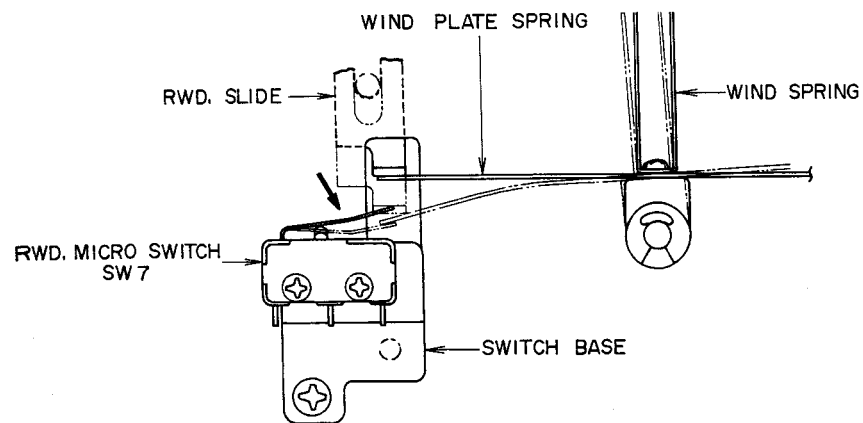


Fig. 12

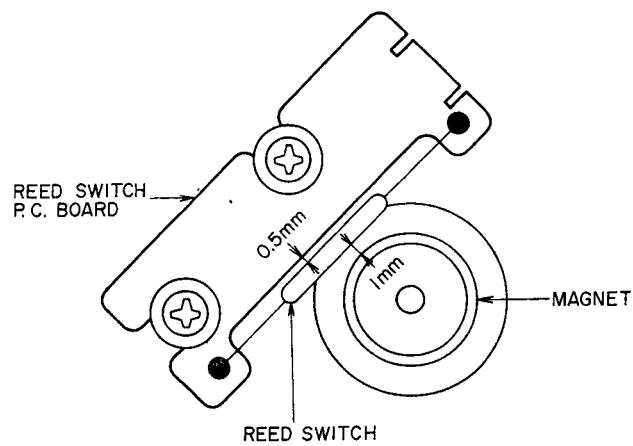


Fig. 13

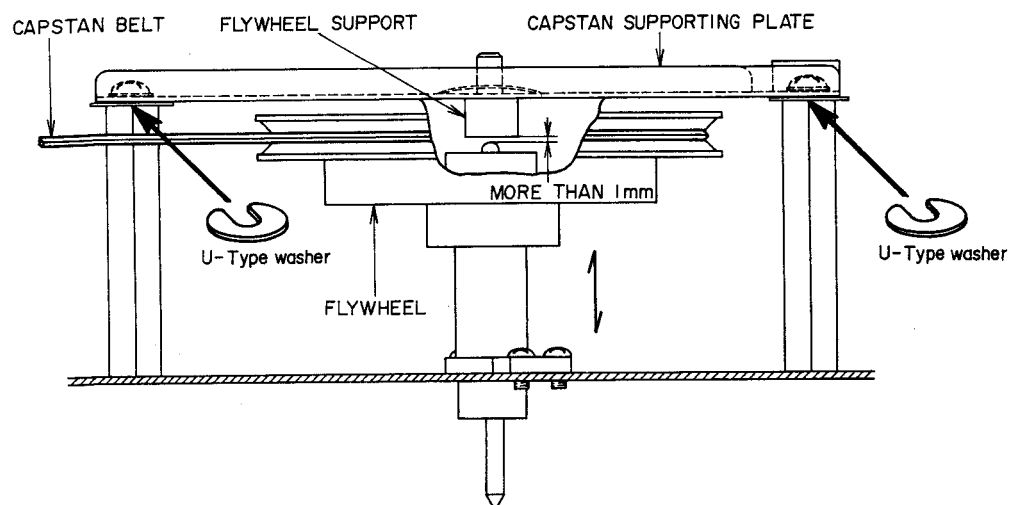


Fig. 14

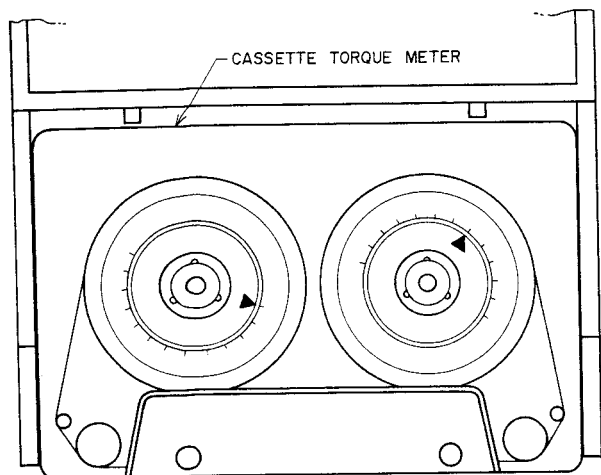


Fig. 15

9. REWIND MICRO SWITCH OPERATION ADJUSTMENT (Refer to Fig. 12)

Adjust by bending the actuator (phosphor bronze plate) as indicated by the arrow mark in the Fig. 12 so that when the machine is set to RWD mode, RWD slide pushes micro switch properly.

10. REED SWITCH POSITION ADJUSTMENT (Refer to Fig. 13)

Adjust position of reed switch to attain a 1 mm gap between the reed switch and rotary magnet.

11. FLYWHEEL VERTICAL LOOSE PLAY ADJUSTMENT (Refer to Fig. 14)

Adjust by inserting U type washers between the supporting plate and support to obtain about a 1.0 mm gap between the flywheel and capstan supporting plate as shown in Fig. 14.

12. TAKE-UP TORQUE AT VARIOUS MODES AND TORQUE MEASURING METHOD (Refer to Fig. 15)

As shown in Fig. 15, set a cassette torque meter to the cassette base. Take a reading of the ▲ mark indication at each respective mode (Fwd, F.FWD, and Rwd).

FWD MODE	50±10g-cm
F.FWD MODE	80g-cm
RWD MODE	80g-cm

NOTE: Take the torque meter indication value plus 10g-cm as recorder take-up torque.

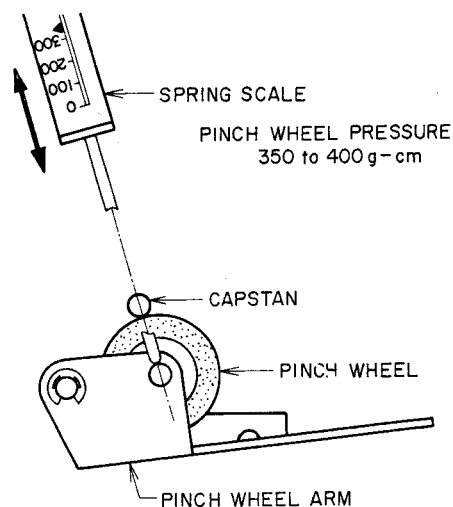


Fig. 16

13. PINCH WHEEL PRESSURE MEASURING METHOD (Refer to Fig. 16)

At playback made, press the pinch wheel arm toward the capstan shaft with a spring scale (500g maximum), and take a spring scale reading at the point at which the pinch wheel separates from the capstan.

V. HEAD ADJUSTMENT

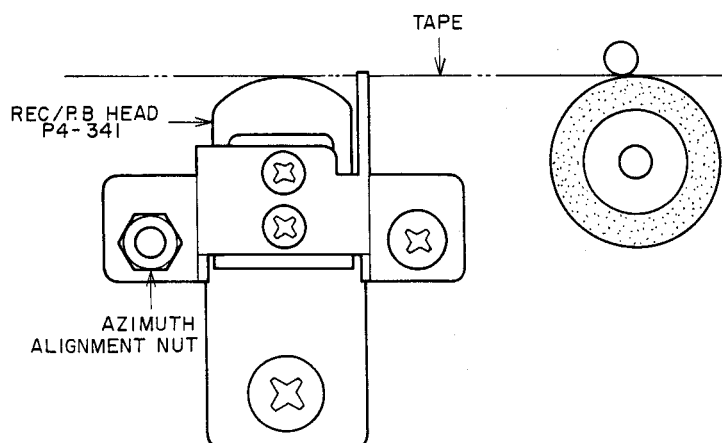


Fig. 17

RECORDING/PLAYBACK AZIMUTH ALIGNMENT ADJUSTMENT (Refer to Fig. 17)

Playback a 10 kHz pre-recorded test cassette tape and adjust azimuth alignment nut to obtain maximum line output on both channels.

NOTES:

- 1) As perfect head adjustment is vital in attaining top tape deck performance, please be sure that this adjustment is properly carried out.
- 2) Be careful not to use a magnetized screw driver or other magnetized tools in the vicinity of the heads.
- 3) Use only new tape, as level variation is likely to occur when using old tape.
- 4) Demagnetize heads with a Head Demagnetizer, before and after head adjustment.

VI. AMPLIFIER ADJUSTMENT

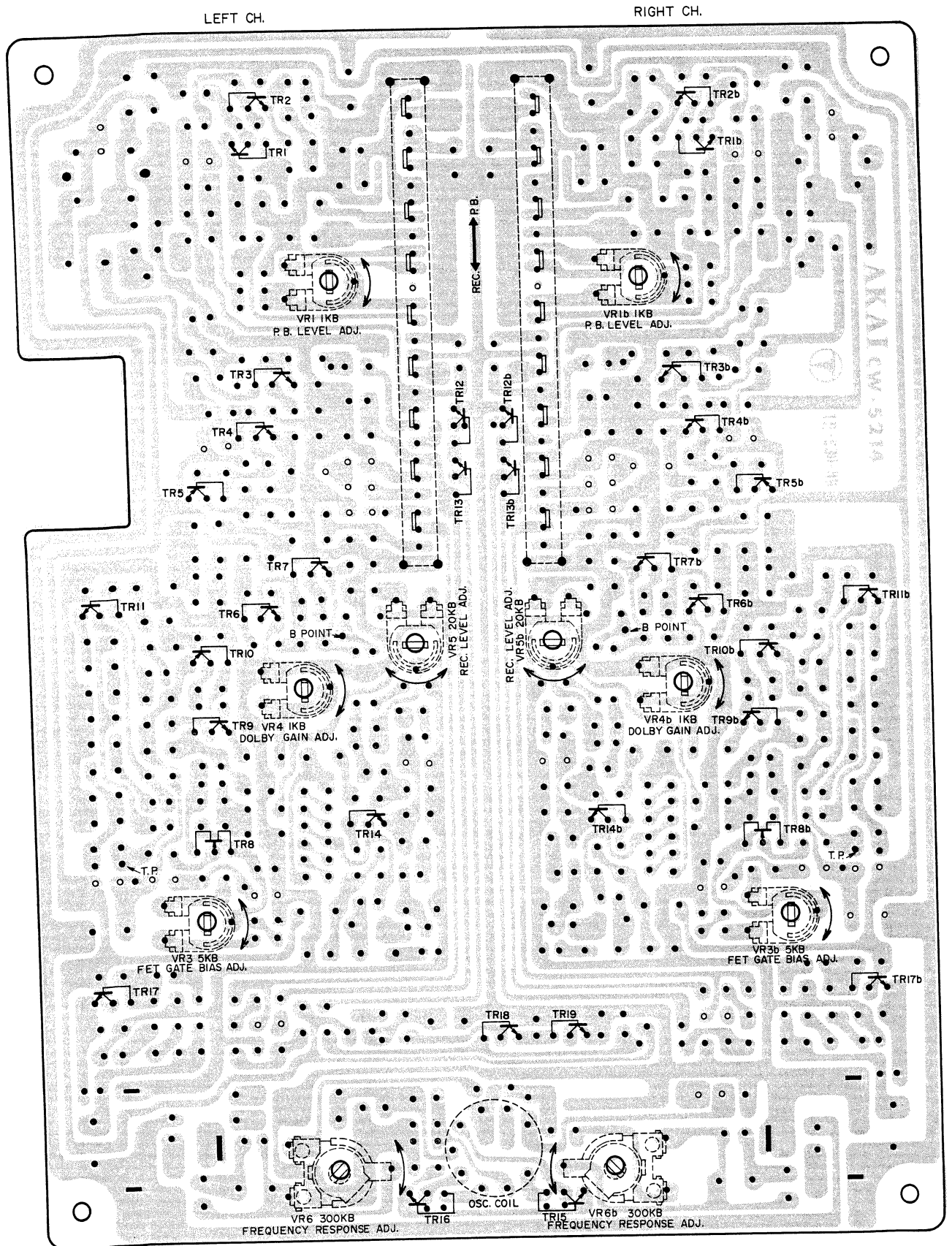


Fig. 18

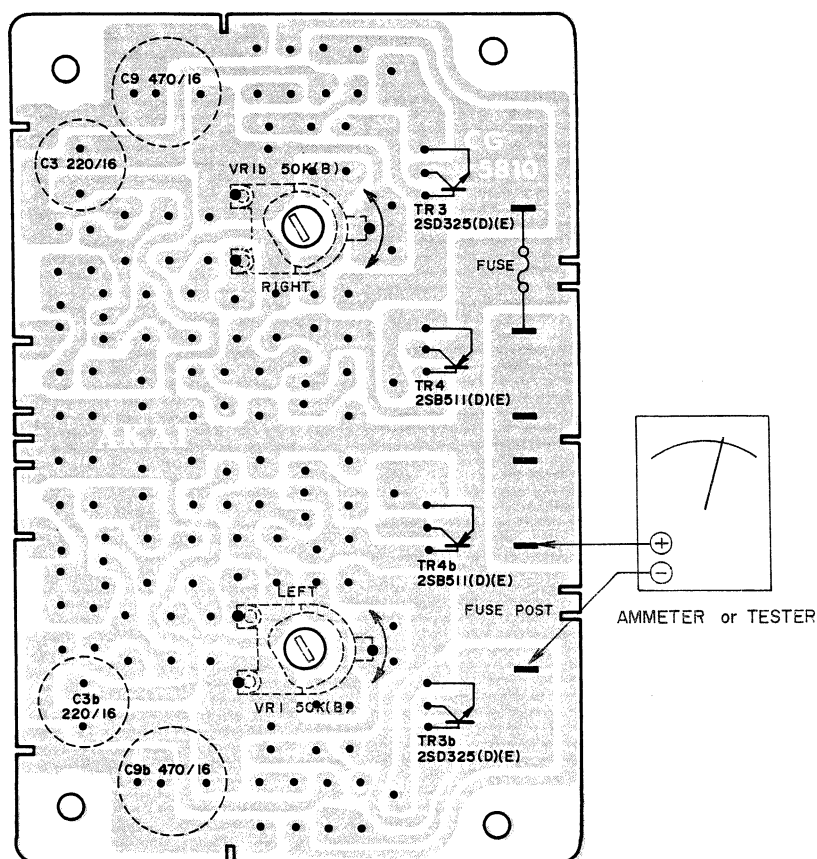


Fig. 19

Step	Adjustment Item	Test Tape, Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Playback Level Adjustment	333 Hz "0" VU Test Tape	Play	VR-1 1 k(B) (CW-5214)	0 ±1.5 dBm	
2	Recording Level Adjustment (Low Noise Tape)	Low Noise Blank Tape, 1,000 Hz "0" VU recording	Rec. and Play	VR-5 20 k(B) (CW-5214)	0 ±2 dBm	Set Tape Selector to LOW NOISE
3	Recording Level Adjustment (Chrome Tape)	Chrome Blank Tape, 1,000 Hz "0" VU recording	Rec. and Play	None	-3 ±1.5 dBm	Set Tape Selector to CHROME
4	Frequency Response Adjustment	Low Noise Blank Tape, 1,000 Hz, 10,000 Hz -20 VU recording	Rec. and Play	VR6 300 k(B) (CW-5214)	10,000 Hz 0 ±1.5 dB in relation to 1,000 Hz	
5	Main Amp Idling Current Adjustment		Stop	VR-1 30 k(B) (CG-5810)	30 mA	

NOTES:

Chart 1

1. Set Tape Selector to LOW NOISE.
2. Set Dolby N.R. Switch to OFF position.
3. Use new test tape.
4. The letter b following an adjustment parts number indicates "right channel".

VII. DOLBY N.R. CIRCUIT ADJUSTMENT

Adjust Dolby N.R. Circuit carefully, following procedures in Chart 2.

Connecting Method:

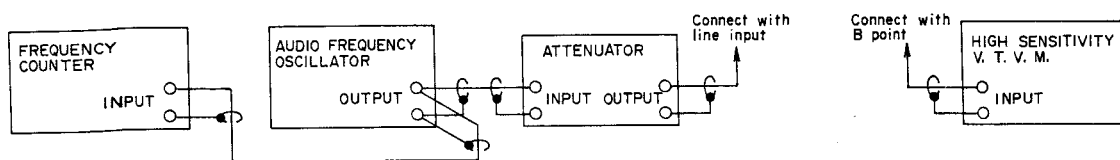


Fig. 20

Item	Supply Signal	Mode	Dolby Switch	T.P.	Adjustment Part	Result; B point Level	Remarks
19 kHz Filter	19 kHz Line Input	REC	ON		L2 23 mH	Minimum Level	Keep Rec. Level Volume at maximum
Recording Dolby Adjustment	5 kHz Line Input	REC	OFF	GND	External Attenuator	+2 dBm	
	5 kHz Line Input	REC	OFF	GND	Reduce Input 30.5 dBm	-28.5 dBm	
	5 kHz Line Input	REC	ON	GND	VR-4 1 kΩ CW-5214	-18.5 dBm	
	5 kHz Line Input	REC	ON	Disconnect from GND	VR-3 5 kΩ CW-5214	-20.5 dBm 2 dBm decrease	
Playback Dolby Confirmation	5 kHz -28.5 dBm recorded Test Tape	PLAY	OFF			or Line Out -28.5 dBm	Keep Rec. Level Volume at maximum
	5 kHz -28.5 dBm recorded Test Tape	PLAY	ON			or Line Out -38.5 dBm	

Chart 2

- NOTES:
1. Since crucial frequency and level etc. is determined by Dolby N.R. Circuit adjustment, be sure to use only correctly calibrated measuring instruments.
 2. Level deviation must be within ± 0.5 dBm.
 3. Paint lock all semi-fixed resistors following adjustments.
 4. Because adjustment error will occur from recording bias leakage, be sure to disconnect power supply lead wire from Oscillator circuit prior to Dolby N.R. Circuit adjustment.
 5. Refer to Fig. 18.

VIII. D.C. RESISTANCE OF VARIOUS COILS

Part	Designation	D.C. Resistance
MOTOR	IB-440	Between WHT/BLK-BLK 1 k ohm Between WHT/ORG-ORG 800 ohm
STOP SOLENOID	0730 THT 1	15 ohm
HEADPHONE OUTPUT TRANSFORMER	S14-123S	Primary: 296 ohm Secondary: 2.2 ohm
OSCILLATOR COIL	OT-903	Between 1-3 8.9 ohm Between 4-6 1.3 ohm Between 7-9 0.4 ohm
ERASE HEAD	E4-100	6.0 ohm
REC./P.B. HEAD	P4-341	190 ohm

NOTE: The resistance values shown in this chart are average values.

Chart 3

IX. CLASSIFICATION OF VARIOUS P.C. BOARDS

1. P.C. BOARD INTERCHANGEABILITY CHART

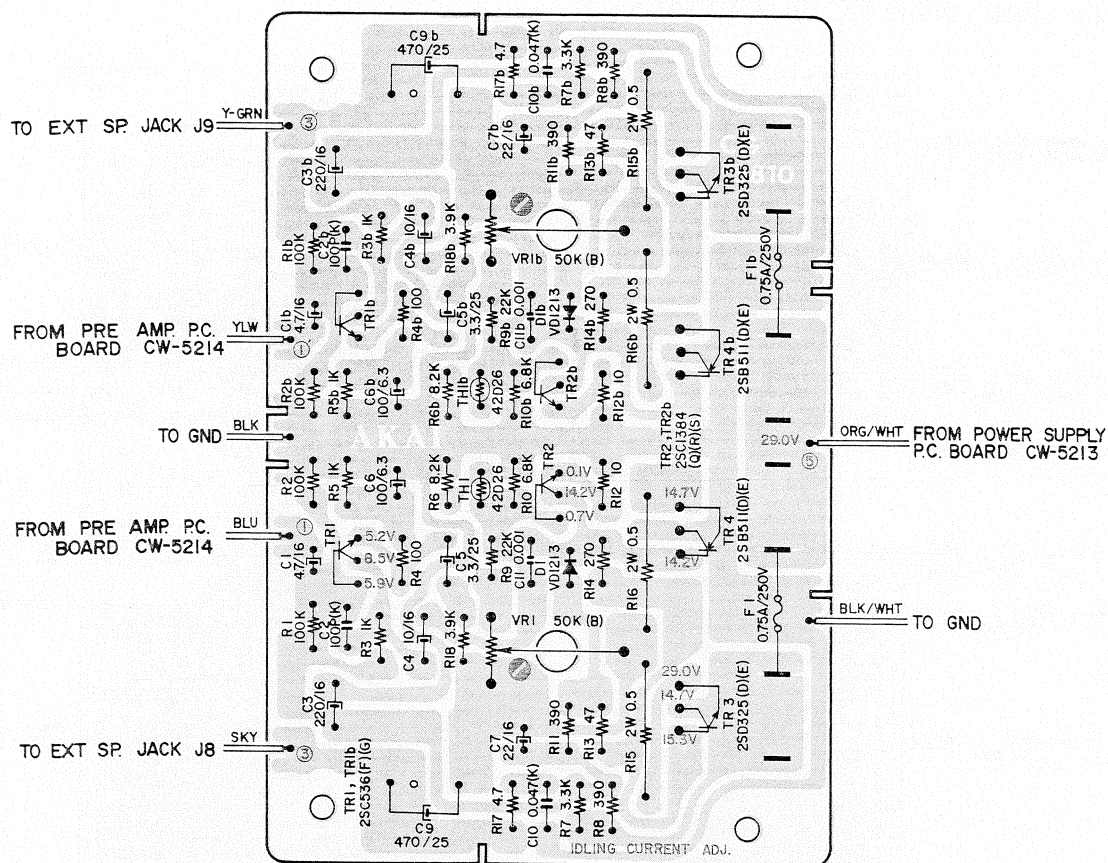
P.C. BOARD	GXC-39	GXC-39D
PEAK LAMP P.C. BOARD	CW-1061 2ED	CW-1061 2ED
POWER SUPPLY P.C. BOARD	CW-5213	CW-5213
PRE. AMP. P.C. BOARD	CW-5214*	CW-5214*
REED SWITCH P.C. BOARD	CG-1229 2ED	CG-1229 2ED
MAIN AMP. P.C. BOARD	CG-5810	
CONDENCER P.C. BOARD	CH-1301	CH-1301
FUSE P.C. BOARD	CH-5311	CH-5311
JACK PLATE P.C. BOARD	LE-5622	LE-5622

* Not interchangeable

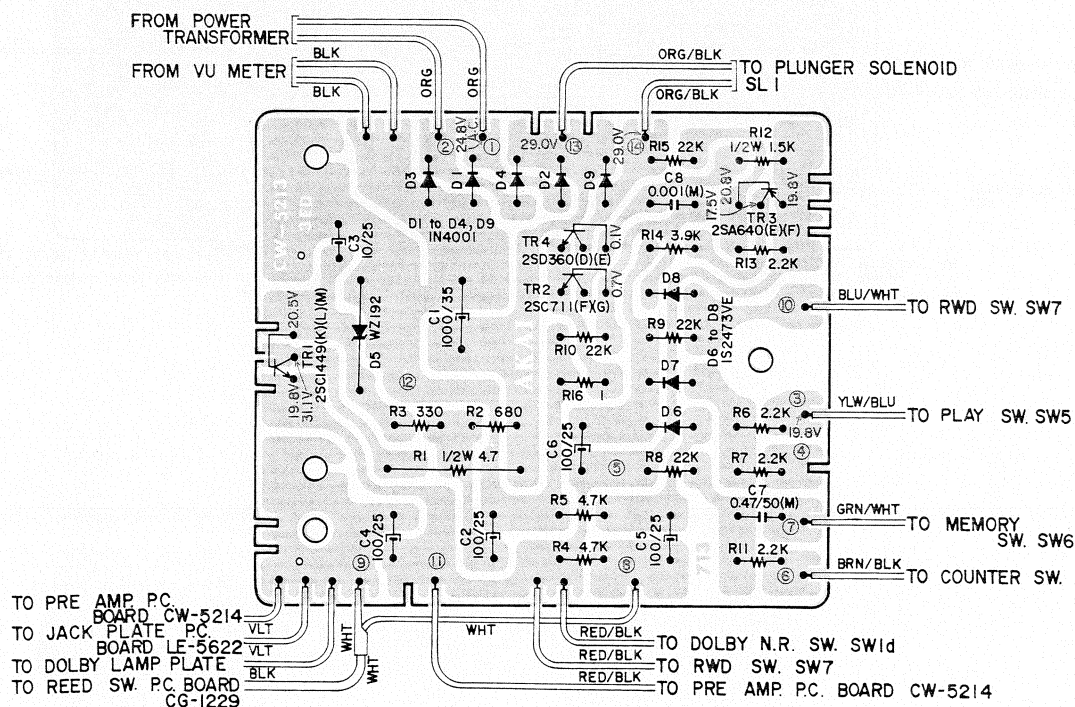
1) PRE. AMP. P.C. BOARD CW-5214



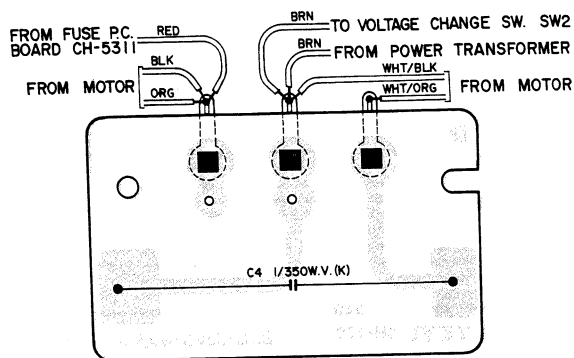
20



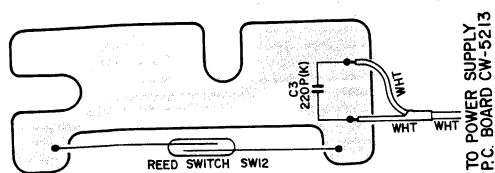
3) POWER SUPPLY P.C. BOARD CW-5213



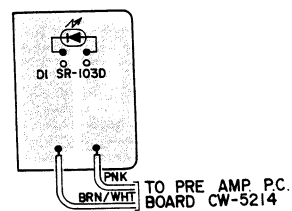
4) CONDENCER P.C. BOARD CH-1301



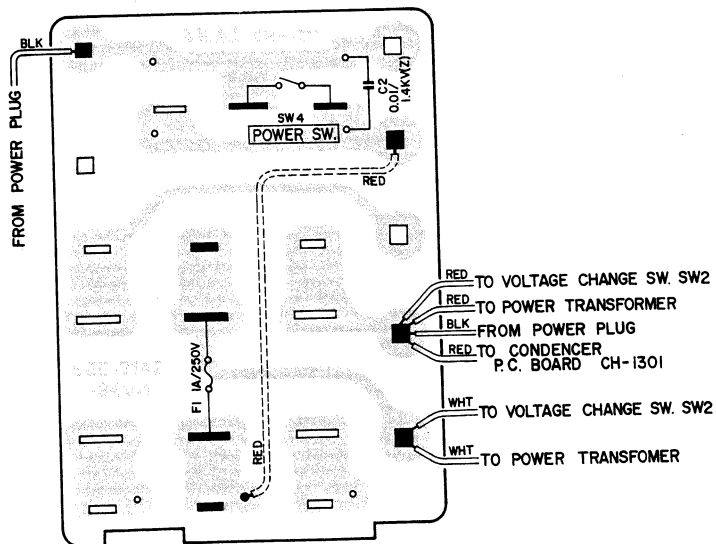
5) REED SWITCH P.C. BOARD CG-1229



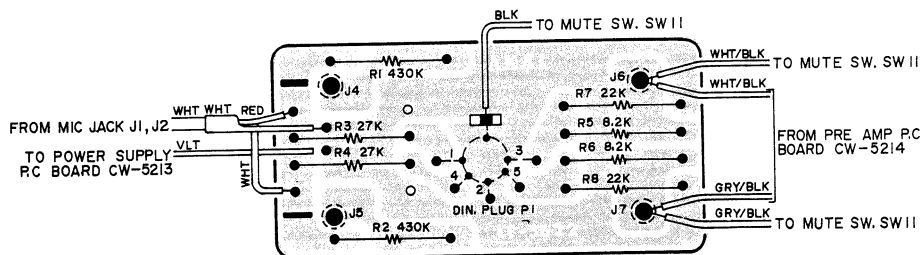
6) PEAK LAMP P.C. BOARD CW-1061



7) FUSE P.C. BOARD CH-5311



8) JACK PLATE P.C. BOARD LE-5622



X. PEAK LEVEL INDICATOR OPERATION

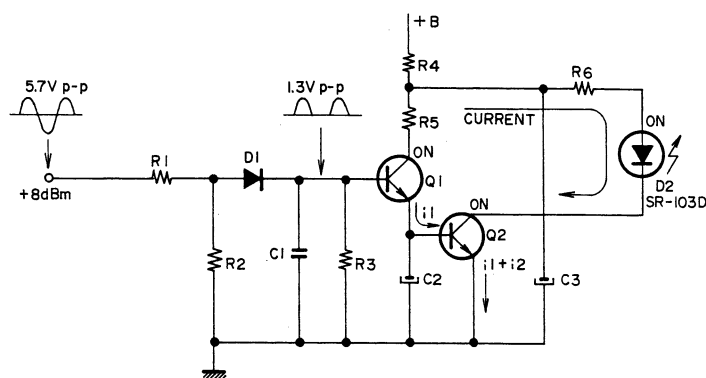


Fig. 21

The Peak Level Indicator is for the purpose of maintaining a recording signal amplitude (VU) range of within +8 dB in order not to exceed the saturation point of the tape during recording. With line level volume VR2 at maximum when there is a signal exceeding +8 dBm at the line output terminal, this peaking indicator lamp will light. The peaking circuit is comprised of attenuator (R_1, R_2), rectifier (D_1, C_1, R_3), switching (Q_1, Q_2, R_5, C_2, C_3) and luminous diode (R_6, D_2). When the recording signal reaches 8 dBm a 1.3 Vp-p D.C. half-wave rectifying current is supplied to the base of Q_1 and Q_1 lead-through is effected (Q_1 is turned ON). Then operating current i_1 flows to the base of Q_2 from Q_1 emitter and Q_2 lead-through is also effected.

In other words, the switching circuit is turned "ON" current i_2 from +B flow to $R_4 \rightarrow R_6 \rightarrow D_2 \rightarrow Q_2$ (collector $\rightarrow$ emitter) and D_2 (SR-103D) is activated.

Q_1 is turned "OFF" at +6 dBm recording input signal, and switching takes place at +7 dBm.

However, because of the slight variation in luminous diode lead-through current, there is a ± 1 dBm switching point deviation.

Caution: Because the Limiter Circuit functions at +3 dB(3VU), when the peaking level facility is being used, set Limiter Switch to OFF position.

SECTION 2

PARTS LIST

TABLE OF CONTENTS

1. HEAD BLOCK	25
2. REEL TABLE BLOCK	26
3. MOTOR BLOCK	27
4. SW. BOX/AMP. CHASSIS BLOCK	28
5. MECH. FRAME BLOCK (1)	30
6. MECH. FRAME BLOCK (2)	32
7. PRE AMP. P.C. BOARD (CW-5214) BLOCK	34
8. POWER SUPPLY P.C. BOARD (CW-5213) BLOCK	35
9. MAIN AMP. P.C. BOARD (CG-5810) BLOCK	35
10. REAR CHASSIS BLOCK	36
11. FINAL ASSEMBLY BLOCK	37
12. LIST OF INTERCHANGEABLE SEMICONDUCTORS	38
INDEX	39

Some of the parts in this parts list are only available as a complete assembly, and can not be supplied as individual parts.

HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read list.

The reference number corresponds with illustration or photo number of that particular parts list.

This number corresponds with the Figure Number.

This number corresponds with the individual parts index number in that figure.

A small "x" indicates the inability to show that particular part in the Photo or Illustration.

12-115x

Schematic Diagram Number of individual manufactured part.

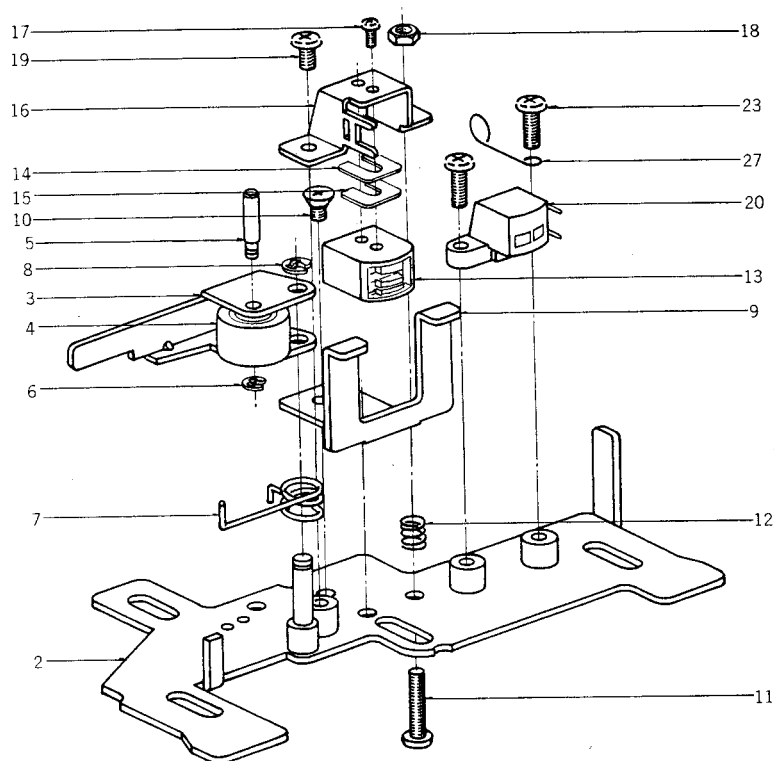
(not required for parts order)

Quantity of particular part required.

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
FLYWHEEL BLOCK #13				
12-115x	800425	Flywheel Block Assy. Comp.	RDG #13	1
12-116	244506	Flywheel Only	RD-233	1
12-117x	244754	Felt, Flywheel	RD-275	1
12-118	251324	Main Metal Case	RD-236	1
12-119	253080	Main Metal	RD-237	1

4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of components of the Schematic Diagram or Service Manual.
5. Please utilize separate "Common List for Service Parts" for Resistor parts orders.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

1. ILLUSTRATION OF HEAD BLOCK



HEAD BLOCK

Ref No.	Parts No.	Description	Schematic No.	Q'ty
1-1x	BH517847	Head Base Block Comp.	CG8	1
1-2	HZ457323	Head Base	CG-0001	1
1-3	HL457391	Pinch Roller Arm	CG-0010	1
1-4	MP468292	Pinch Roller CG D=13	CT-0032	1
1-5	MS389981	Pinch Roller Shaft	CS-0011	1
1-6	ZW391397	'E' Ring 1.2M	6-1-9	1
1-7	ZG457380	Pinch Roller Spring	CG-0009	1
1-8	ZW270088	'E' Ring 1.9M	6-1-9	1
1-9	HZ457367	Cassette Stop Base	CG-0007	1
1-10	ZS444330	ISO Screw, countersunk head 3x4		2
1-11	ZS462947	Screw, pan head 2.3x12		1
1-12	ZG465636	Angle Adjust Spring	CG-0029	1
1-13	HP564085	REC/P.B HEAD P4-341		1
1-14	ZW414235	Height Adjust Washer A	CS-0025	1
1-15	ZW414246	Height Adjust Washer B	CS-0025	1
1-16	MS366625	PC Tape Guide	RCC-1012	1
1-17	ZS461395	Screw, round head 2x3		1
1-18	ZW273688	Nut M2.3		1
1-19	ZS417161	Screw, pan head 2.3x4		1
1-20	HE364318	ERASE HEAD E4-100		1
1-21x	HE656098	ERASE HEAD HF213853 (New Type)	37-2-2	1
1-22x	ZW316800	Earth Lug M2.6		1
1-23	ZS375118	Screw, binding head 2.3x6		2
1-24x	ZS201407	Screw, pan head 2.3x3		1
1-25x	ZS432674	Screw, pan head 3x3		1
1-26x	ZW413256	Washer (SPC) D3.4x7.8x0.5t		1
1-27	TC399071	Head Wiring Hook	CS-0021	1

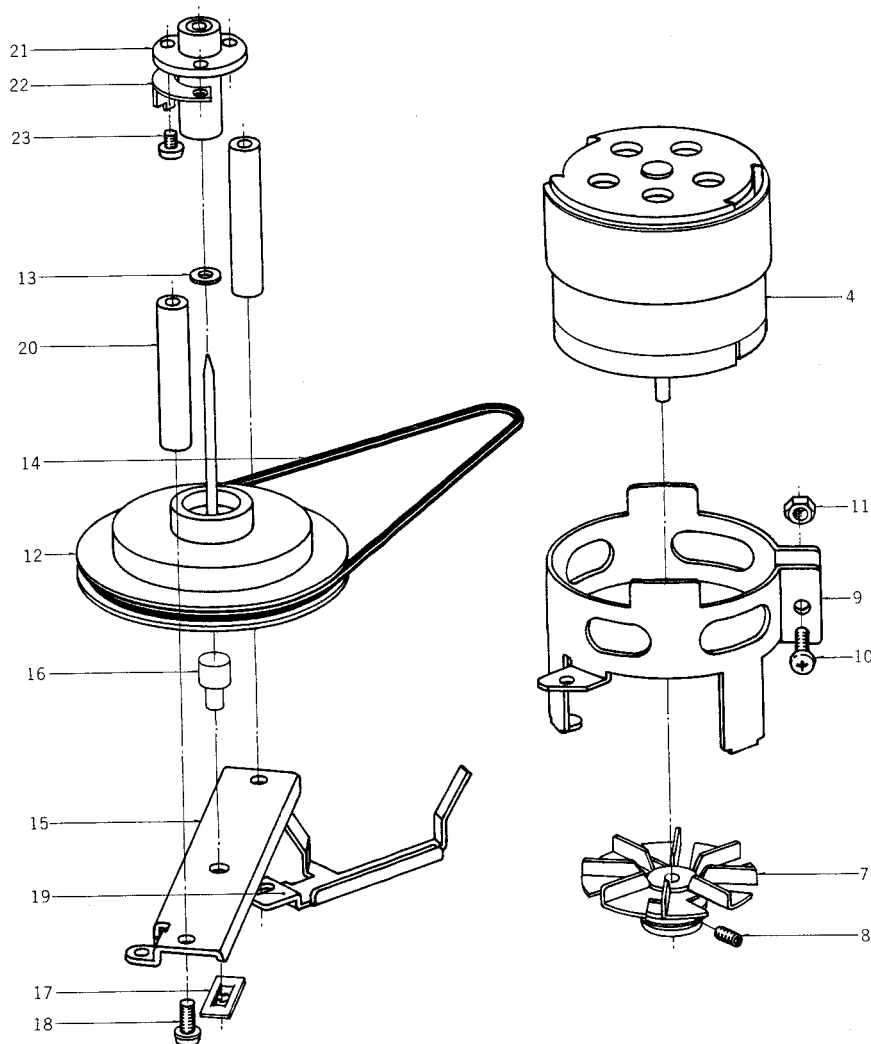
This exploded view diagram illustrates the assembly of a mechanical device, likely a lamp or a sensor, with 19 numbered components. The assembly is shown in two main sections, with a dashed line indicating the alignment of parts between them.

- Component 1:** A base plate or bracket with two mounting holes.
- Component 2:** A vertical rod or shaft.
- Component 3:** A circular disc or washer.
- Component 4:** A small circular disc or washer.
- Component 5:** A larger circular disc or washer.
- Component 6:** A coiled spring.
- Component 7:** A cylindrical component, possibly a sleeve or a connector.
- Component 8:** A small circular disc or washer.
- Component 9:** A conical or dome-shaped component, likely a lens or a protective cap.
- Component 10:** A vertical rod or shaft.
- Component 11:** A circular disc or washer.
- Component 12:** A vertical rod or shaft.
- Component 13:** A small circular disc or washer.
- Component 14:** A coiled spring.
- Component 15:** A larger circular disc or washer.
- Component 16:** A vertical rod or shaft.
- Component 17:** A small circular disc or washer.
- Component 18:** A small circular disc or washer.
- Component 19:** A conical or dome-shaped component, likely a lens or a protective cap.

The diagram shows the assembly process from the base plate (1) up to the final dome-shaped component (19). The dashed line indicates the alignment of the central rod (2) and the various discs and springs (3, 4, 5, 6, 10, 11, 12, 13, 14, 15, 16, 17, 18) that form the internal structure.

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
2-1x	BR451697	Supply Reel Table Block Comp.	CG.CT.CJ	1
2-2x	BR451686	Take-up Reel Table Block Comp.	CG.CT.CJ	1
2-3	MT457312	Reel Table Bracket, w/shaft	CG-2001	1
2-4	ZW364342	Washer (Polyslider) D1.7x3.2x0.25t		2
2-5	TC389790	Supply Reel Table Comp.	CS-2016B	1
2-6	ZG385075	Reel Table Spring	GS-2014	1
2-7	MT370361	C Type Reel Table Blade	RCC-1345	1
2-8	MT370348	C Type Reel Table Bush	RCC-1343	1
2-9	MT370372	C Type Reel Shaft Cap	RCC-1346	1
2-10x	ZW601751	Washer D6.1x10x0.12t		1
2-11x	ZW601762	Washer D3.1x8x0.12t		1
2-12	MS387573	Take-up Reel Table Shaft	CS-2007	1
2-13	ZW355307	Washer (BSP) D2.6x6.9x0.5t		1
2-14	ZG387584	Clutch Spring	CS-2008	1
2-15	MR387606	Take-up Reel Table Pulley Comp.	CS-2009B	1
2-16	MT387630	Take-up Reel Table Comp.	CS-2012B	1
2-17	MT387641	Take-up Reel Table Bush	CS-2015	1
2-18	ZW270088	'E' Ring 1.9M	6-1-9	1
2-19	MT394200	Take-up Reel Cap	CS-2105	1

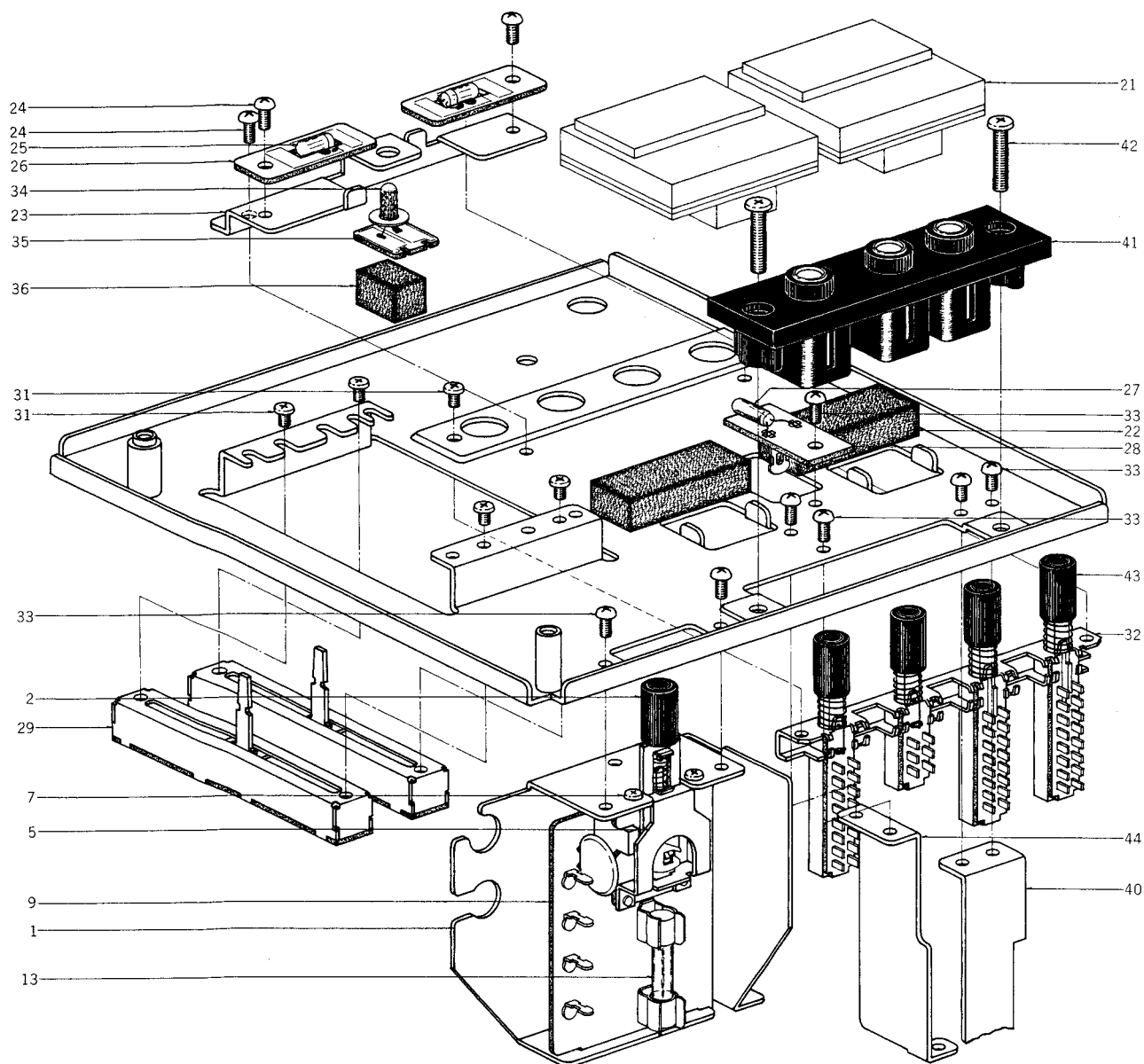
3. ILLUSTRATION OF MOTOR BLOCK



MOTOR BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
3-1x	BM510107	Motor Block (IB-440) Block Comp.	CG8	1	3-12	MI456658	Flywheel	CG-1021	1
3-2x	BM637176	Motor Block (IB-440) Block Comp. (CSA)	CG8	1	3-13	ZW461272	Washer (Polyslider) D3x5x0.13t		1
3-3x	BM637198	Motor Block (IB-440) Block Comp. (39-CSA)	CG8	1	3-14	MB456660	Capstan Belt D106x1.4x1.4	CG-1023	1
3-4	BM557673	Motor IB-440	9-2-3	1	3-15	TC456682	Capstan Supporting Plate	CG-1022	1
3-5x	BM646222	Motor IB-440Z (CSA)	9-2-5	1	3-16	TC387268	Flywheel Support	CS-1115	1
3-6x	BM557673	Motor IB-440 (39-CSA)	9-2-3	1	3-17	ZW478991	Speed Nut M4 (P Type)	6-3-7	1
3-7	MZ510017	Motor Fan, w/pulley B	CG-7308	1	3-18	ZS322626	ISO Screw, binding head w/washer		2
3-8	ZS356804	Set Screw, hexagon Socket 3x4 (Cup/p.)		2	3-19	TC627603	Belt Stopper 2	CH-1307	1
3-9	TC516306	Motor Mt. Metal B	CG-1234	1	3-20	TC456671	Capstan Supporting Prop	CT-1016	2
3-10	ZS417148	Screw, binding head 3x15		1	3-21	MV610514	Capstan Metal Case B	CP-1156	1
3-11	ZW273756	Nut M3		1	3-22	TC494987	Take-up Spring Hook	CT-1101	1
					3-23	ZS464692	Screw, binding head 2.3x6		3

4. ILLUSTRATION OF SW. BOX/AMP. CHASSIS BLOCK

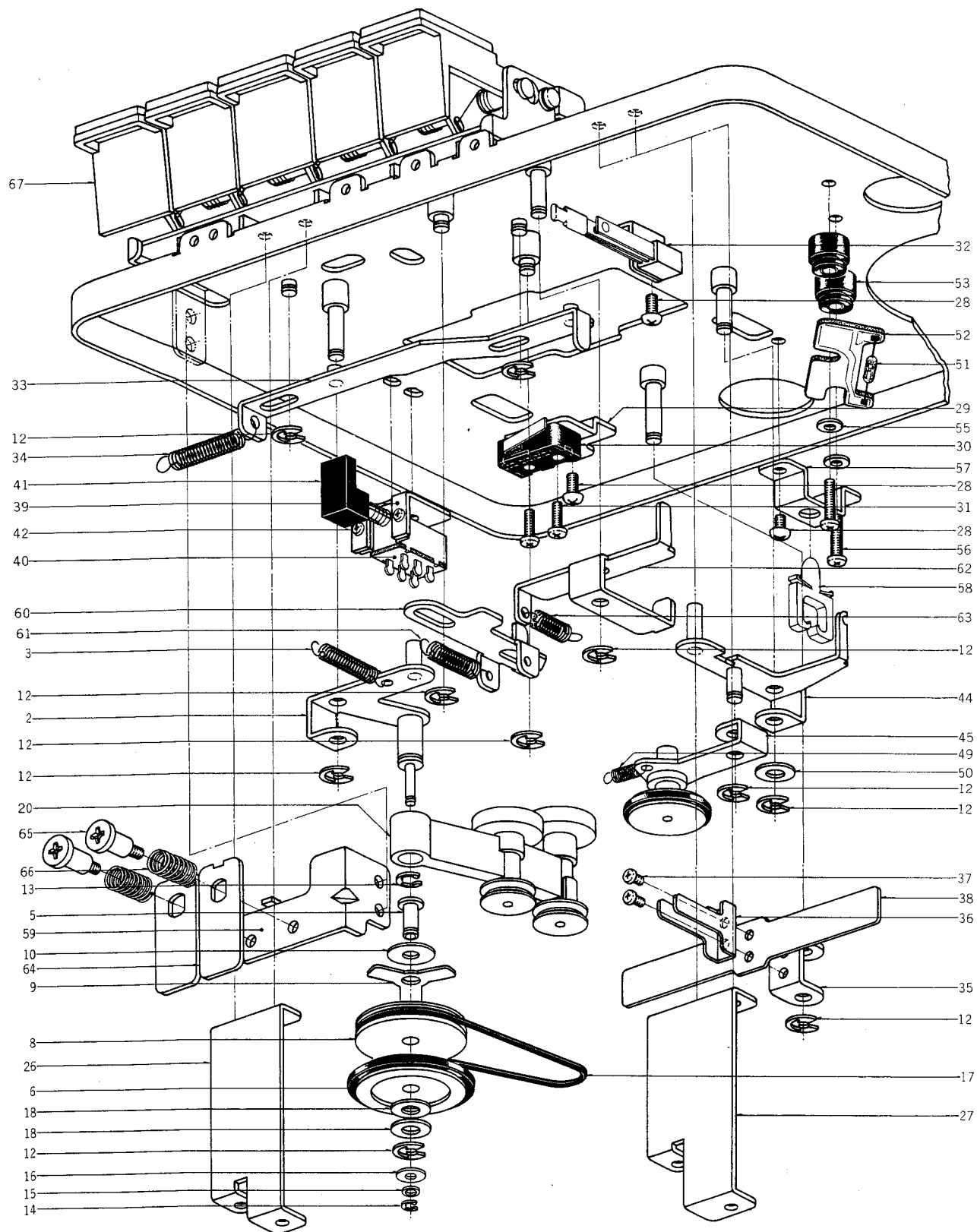


SW. BOX/AMP. CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
SW. BOX BLOCK				
4-1	TC631484	Power Supply SW. Table	CG-5803	1
4-2	SB614428	Power Button B	A5-5021	1
4-3	BZ631980	Fuse Plate A Block Assay B.	CW-5033	1
4-4x	BJ618805	Lug (W. calking)	32-1-56	4
4-5	ES469541	Push SW. TV-3 JB52	25-5-60	1
4-6x	ES499972	Push SW. JS-09 (CEE)	25-5-67	1
4-7	ZS422076	Screw, pan head 3x5		2
4-8	EC551160	Ceramic/C. NB821 YZ		
		0.01μF(Z) 1.4 kWV	24-5-55	1
4-9	EA612178	Puse P.C. Board	CH-5311	1
4-10x	EA614788	Fuse P.C. Board B (CEE)	CH-5318	1
4-11x	EJ514822	Fuse Holder, P.C. Board		
		S-N5051	40-1-28	2
4-12x	EJ514822	Fuse Holder, P.C. Board		
		S-N5051(CSA,JPN)	40-1-28	4
4-13	EF563681	Fuse 1A 250V	39-1-50	1
4-14x	EF511626	Fuse ULMF61M 250V 0.8A		
		(CSA)	39-1-45	1
4-15x	EF575932	Fuse 0.8A 250V (JPN)	39-1-50	1
4-16x	EF375647	Fuse (T Type) 500MAT(CEE)		2
4-17x	EF550618	Fuse ULMF61M 250V 1.5A		
		(CSA)	39-1-45	1
4-18x	EF563692	Fuse 1.5A 250V (JPN)	39-1-50	1
4-19x	EF563670	Fuse 0.5A 250V	39-1-50	1
4-20x	EJ621415	Fuse Clip (CEE)	40-1-57	6
AMP. CHASSIS BLOCK				
4-21	EM631822	VU Meter D19A74R	46-1-99	2
4-22	SZ650935	VU Mat	CG-5820	2
4-23	TC631473	Lamp Table	CG-5802	1
4-24	ZS325495	Tapping Screw #2 3x6		12
4-25	EL603268	Lamp 24V 35MA	28-2-39	2
4-26	EZ255317	Lamp Holder	LD-533	2
4-27	EL621167	Pilot Lamp 5.5V 60MA	28-2-36	1
4-28	TC612112	Lamp Plate (1)	CH-5302	1
4-29	EV453396	Slide Vol. LD14A003 kA		
		(L=20M/M)	36-16-3	2
4-30x	EV453420	Slide Vol. (2-throw)		
		MD14A003 100 kBX2 (39)	36-27-1	1
4-31	ZS422076	Screw, pan head 3x5		4
4-32	ES631833	Push SW. 4FT-003-CT1320	25-5-174	1
4-33	ZS379350	ISO Screw, pan head 3x6		2
4-34	ED522887	Luminous Diode SL-103	45-15-2	1
4-35	EA614158	Peak Lamp P.C. Board	CW-1061	1
4-36	TC613776	Lamp Mat	CW-5026	1
4-37x	EJ510333	Wire Clip		
		220-JD481610-0104 (Nylon)	2-7-17	2
4-38x	EJ514607	Wire Clip		
		220-JD485210-01 (Nylon)	2-7-18	1
4-39x	ER419040	Carbon/R. RD1/4 1M(J)		
		(Stop. Type)	35-10-1	2
4-40	TC648437	Retaining Table C	CG-5819	1
4-41	EJ555794	Jack, 3-throw S-G0911	31-2-43	1
4-42	ZW559135	Tapping Screw # 2 4x18 (pan)		2
4-43	SK607127	Push Knob A	A5-5022	4
4-44	TC631495	P.C. Board Mt. Plate	CG-5804	1
4-45x	EC348704	Elect./C. 2200μF 35WV		
		(Lug Type) (39)	24-10-63	1
4-46x	TC612066	Trans. Table (39-CSA)	CH-5308	1
4-47x	BT631890	Power Trans. CGT-42		
		(39-CSA)	38-4-333	1
4-48x	TC516598	Trans. Retainer (39-CSA)	CS-5337	2
4-49x	TC631506	Shield Plate (CSA)	CG-5806	1

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

5. ILLUSTRATION OF MECH. FRAME BLOCK (1)

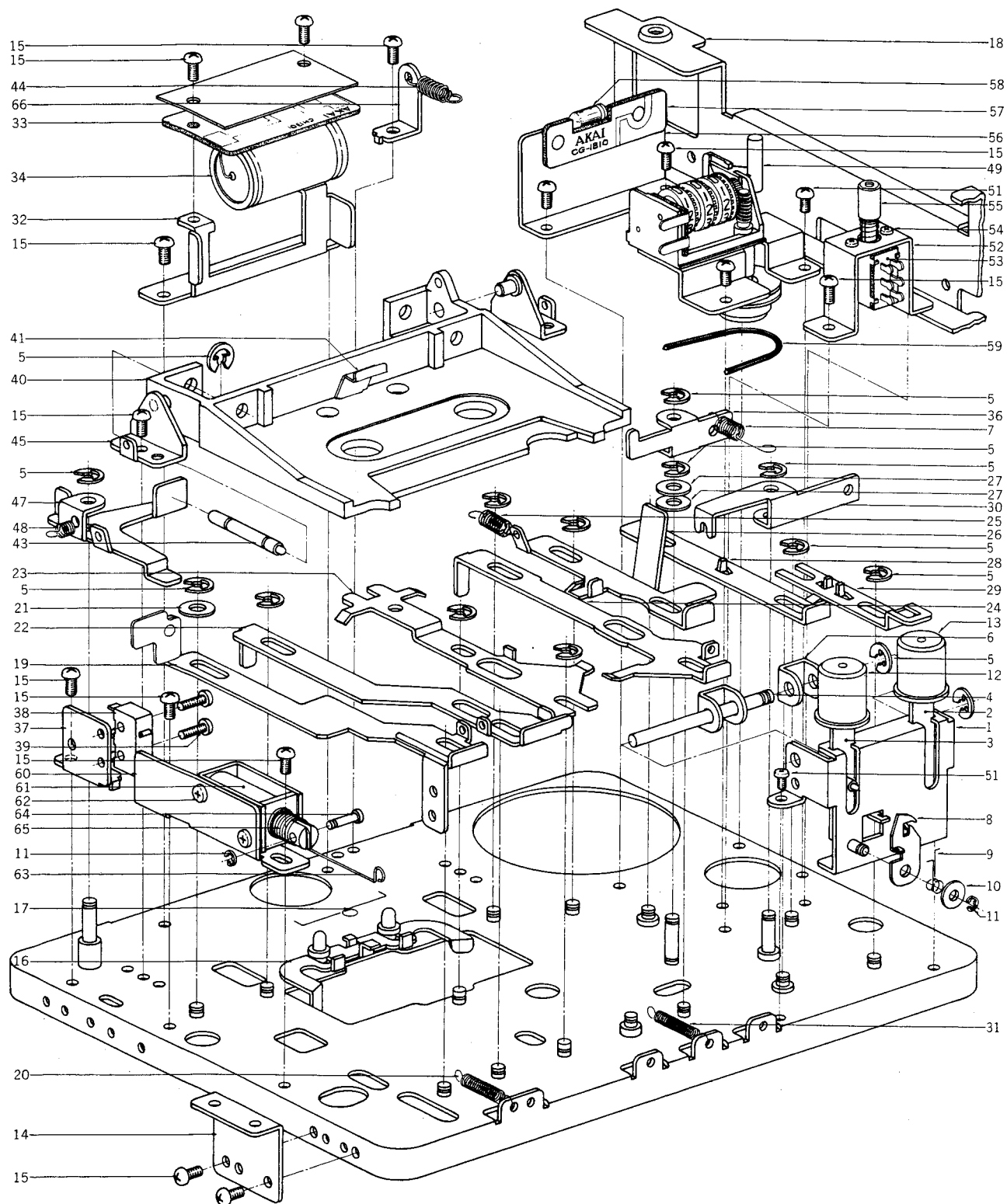


MECH. FRAME BLOCK (1)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
WIND IDLER BLOCK					5-57	TC518117	Retaining Plate	CG-1404	2
5-1x	BZ459966	Wind Idler Block Comp.	CG-CT.CH	1	5-58	EJ510333	Wire Clip 220JD481610-0104 (Nylon)	2-7-17	3
5-2	ML456783	Wind Lever (1), w/shaft	CG-2009	1	5-59	MZ668351	REC. Bracket A	CG-1824	1
5-3	ZG392804	Auto. Change Lever E			5-60	ML629932	Play Lever	CG-1804	1
		Return Spring	CS-2566	1	5-61	ZG227452	Spring D	900-118	1
5-4x	MI462690	Wind wheel Sub Block Comp.	CG	1	5-62	ML629943	Pause Lever	CG-1805	1
5-5	TC461878	Wheel Collar	CG-2026	1	5-63	ZG369112	Head Base Return Spring	RCC-1035	1
5-6	TC467752	Wind Wheel 1, w/ring	CG-2023	1	5-64	MZ659790	Recording Plate A	CG-1823	1
5-7x	TC461586	Clutch Felt	CG-2025	1	5-65	ZS478697	Graduated Screw, CG	CG-1093	2
5-8	MI461891	Wind Wheel 2	CG-2024	1	5-66	ZG494381	REC. Cramp Spring B	CG-1218	2
5-9	ZG459224	Clutch Spring	CG-2021	1	5-67	ES644242	Keyboard Switch D	25-5-178	1
5-10	ZW259795	Washer (SUP) D4.3x11x0.13t		1	5-68x	ZW273767	Earth Lug D3x20L		1
5-11x	ZW421007	Washer (SUP) D4.3x11x0.25t		10					
5-12	ZW290283	'U' Ring 2.85M	6-1-1	1					
5-13x	ZW270123	'E' Ring 4M	6-1-9	1					
5-14	ZW391397	'E' Ring 1.2M	6-1-9	1					
5-15	ZW474581	Washer (Teflon)		1					
		D2.05x3.5x0.2t		1					
5-16	ZW474592	Washer (Teflon)		1					
		D2.05x7x0.2t		1					
5-17	MB456895	Wind Belt D40x1.4x1.4	CG-1035	1					
5-18	ZW474603	Washer (Teflon)		1					
		D4.1x13x0.2t		1					
WIND PULLEY BLOCK									
5-19	BZ592154	Wind Pulley Block Comp.	CG-CT.CJ	1					
5-20x	ML456827	Wind Lever 2, w/metal	CG-2015	1					
5-21x	MS456851	Wind Pulley Shaft 1	CG-2018	1					
5-22x	MR456838	Wind Pulley 1	CG-2016	2					
5-23x	MR456840	Wind Pulley 2	CG-2017	2					
5-24x	ZW381644	Washer (Polyslider)		4					
		D2.1x4.0x0.13t		1					
5-25x	MS456862	Wind Pulley Shaft 2	CG-2018	1					
MECH. FRAME BLOCK									
5-26	SZ629921	Mt. Foot A	CG-1802	1					
5-27	TC631416	Mt. Foot B	CG-1814	1					
5-28	ZS325495	Tapping Screw #2 3x6		22					
5-29	MZ631350	SW. Retaining Table	CG-1806	1					
5-30	ES477966	Micro SW. SS-5GL	25-1-23	1					
5-31	ZS461261	Screw, binding head 2.3x8		2					
5-32	ES659643	Leaf SW. BSW-18B	25-10-24	1					
5-33	TC456996	Wind Slide, w/pin	CG-1046	1					
5-34	ZG224796	New Spring D	MH-142	1					
5-35	MZ595675	Wind Plate	CH-1049	1					
5-36	ZG456985	Wind Spring	CG-1045	1					
5-37	ZS417273	Screw, binding head 2.3x4		2					
5-38	ZG460484	Wind Plate Spring	CG-1083	1					
5-39	TC498892	SW. Holder	CG-3304	1					
5-40	ES539043	Push SW. SPJ-10108	25-5-92	1					
5-41	SB499195	SW. Button	CG-3305	1					
5-42	ZS464703	Screw, binding head 2x4		2					
5-43x	ZS442585	Screw, binding head 2.6x4		2					
5-44	ML456693	Take-up Lever 1, w/shaft	CG-1024	1					
5-45	ML630448	Take-up Lever 2	CJ-2031	1					
5-46	MI456750	Take-up Wheel	CG-1031	1					
5-47x	ZW474581	Washer (Teflon)		1					
		D2.05x3.5x0.2t		1					
5-48	MR456761	Take-up Pulley	CG-1032	1					
5-49	ZG469315	Take-up Lever Spring	CG-1091	1					
5-50	ZW461248	Washer (PBP) D4.3x11x0.35t		1					
5-51	ES516036	Lead SW. ORD-225	25-11-1	1					
5-52	EA516047	Lead SW. P.C. Board	CG-1229	1					
5-53	TC515518	SW. Table Cushion	CG-1228	2					
5-54	EC290564	VFM/C. 220PF(K) 50WV	24-6-2	1					
5-55	ZW516251	Washer (SPC) D2.4x5.8x0.4t		2					
5-56	ZS462881	Screw, binding head 2.3x12		2					

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

6. ILLUSTRATION OF MECH. FRAME BLOCK (2)



MECH. FRAME BLOCK (2)

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
OPERATION BUTTON BLOCK				
6-1	TC457402	Operation Button Holder, w/shaft	CG-2003	1
6-2	SB457413	Operation Button A	CG-2006	1
6-3	SB461406	Operation Button B, w/pin	CG-2006	1
6-4	MS457435	Button Shaft	CG-2004	1
6-5	ZW290283	'U' Ring 2.85M	6-1-1	22
6-6	ML457424	Button Lever	CG-2005	2
6-7	ZG639720	Pause Lever Spring	CJ-1047	1
6-8	TC515575	SW. Lock Cam B	CG-2301	1
6-9	ZG514440	Button Lock Spring B	CG-2303	1
6-10	ZW452373	Washer (SPC) D3x8x0.5t		1
6-11	ZW270088	'E' Ring 1.9M	6-1-9	2
6-12	SB613495	Push Button A (Orange)	CW-2014	1
6-13	SB613506	Push Button B (Blue)	CW-2014	1
MECH. FRAME BLOCK				
6-14	MZ629998	Mt. Table	CG-1803	2
6-15	ZS325495	Tapping Screw #2 3x6		24
6-16	TC456928	Brake Shoe	CG-1039	1
6-17	ZG456930	Brake Spring	CG-1040	1
6-18	MZ631631	Panel Support	CT-1808	1
6-19	TC498947	REC. Operation Plate	CG-3306	1
6-20	ZG456186	Lock Lever Spring	CC-1119	1
6-21	ZW259986	Washer (Nylon) D5.1x10.3x1t		3
6-22	TC456963	Rewind Slide	CG-1043	1
6-23	TC456941	Brake Slide	CG-1041	1
6-24	TC456952	F.FWD Slide	CG-1042	1
6-25	ZG516418	Eject Spring	CG-1238	1
6-26	ML631451	Eject Slide A	CG-1818	1
6-27	ZW259885	Washer (PBP) D5.1x10.3x0.1t		2
6-28	TC457097	Pause Slide	CG-1058	1
6-29	ML632182	Eject Slide 3	CG-1821	1
6-30	ML457132	Eject Lever	CG-1062	1
6-31	ZG514697	Read Return Spring	CG-1308	1
6-32	TC631438	Capacitor Mt. Table	CG-1816	1
6-33	EA612180	Condenser P.C. Board	CH-1301	1
6-34	EC514743	MP/C. 1μF(K) 350WV DC (Tub. Type)	24-9-68	1
6-35x	EZ638965	Cord Support	2-7-50	3
6-36	ML457110	Pause Lever	CG-1060	1
6-37	TC457075	SW. Plate	CG-1056	1
6-38	ES389700	Micro SW. SS-5	25-1-19	1
6-39	ZS461261	Screw, binding head 2.3x8		2
6-40	TC457233	Cassette Base	CG-1073	1
6-41	ZG627513	Cassette Retaining Spring A	CG-1074	1
6-42x	SM477358	Cassette Insert Name Plate	CG-1098	1
6-43	MH457255	REC. Safety Pin	CG-1075	1
6-44	ZG367301	Click Spring	RCC-1259	1
6-45	TC457200	Cassette Base Bracket, w/pin	CG-1063	2
6-46x	ZW562476	Earth Lug M3		1
6-47	ML483906	REC. Safety Lever	CT-1003	1
6-48	ZG387821	Rewind Spring	CS-2033	1
6-49	MC631844	Counter SMP-390-59	9-1-40	1
6-50	MZ631405	Counter Base	CG-1813	1
6-51	ZS483456	Screw, countersunk head 2.3x4		2
6-52	MZ631361	Memory SW. Mt. Plate	CG-1807	1
6-53	ES619053	Push SW. SPJ-10114B	25-5-144	1
6-54	ZS460440	Screw, pan head 2x4		2
6-55	SB613618	Memory Button	CW-5007	1
6-56	MZ631372	Lamp Mt. Table	CG-1809	1
6-57	EA631383	Tape Run P.C. Board	CG-1810	1
6-58	EL603268	Lamp 24V 35MA	28-2-39	1
6-59	MB613258	Counter Belt D=80 x 1x1	CW-1045	1
6-60	MZ631427	Plunger Mt. Plate	CG-1815	1
6-61	EP494425	Plunger Solenoid 0730THT1	44-1-48	1
6-62	ZS481645	Screw, binding head 2.6x3		2
6-63	EJ631462	Joint B	CG-1819	1
6-64	MH494414	Joint Pin	CG-1206	1
6-65	ZG494403	Return Spring	CG-1204	1
6-66	TC457266	Spring Hook	CG-1077	1

7. PRE-AMP. P.C. BOARD (CW-5214) BLOCK

Symbol No.	Parts No.	Description	Q'ty	Symbol No.	Parts No.	Description	Q'ty
7-1	BA635488	Pre Amp. P.C. Boare Comp. (CW-5214)	1	7-C36	EC321208	Elect. 220μF 16WV	1
7-2	BA636456	Pre Amp. P.C. Board Comp. (CW-5214)(39)	1	7-C37	EC493637	Elect. 47μF 10WV	2
7-3	BA661037	Pre Amp. P.C. Board Comp. (CW-5214)(39)	1	7-C38	EC337500	Mylar 0.0047μF(J) 50WV	2
7-4	BA661048	Pre Amp. P.C. Board Comp. (CW-5214) (39-New)	1	7-C39	EC487157	NP 0.47μF(M) 50WV	2
7-TR1,2	ET391768	Transistor 2SC458LG(C)(D)	4	7-C40	EC320051	Elect. 10μF 16WV	2
7-TR3	ET603257	Transistor 2SC1312S(G)(H)	2	7-C42	EC320040	Elect. 47μF 16WV	2
7-TR4	ET623733	Transistor 2SC1647(R)(S)(E)	2	7-C43	EC320051	Elect. 10μF 16WV	2
7-TR5	ET557976	Transistor 2SA628(E)(F)	2	7-C44	EC368335	Mylar 0.022μF(J) 50WV	2
7-TR6	ET663243	Transisotr 2SC1312S(G)	2	7-C45	EC250841	Mylar 0.01μF(J) 50WV	2
7-TR7	ET623733	Transistor 2SC1647(R)(S)(E)	2	7-C46	EC450527	Elect. 4.7μF 25WV	2
7-TR8	ET603270	FET Transistor 2SK34(D)	2	7-C48	EC423595	Mylar 0.033μF(M) 50WV	1
7-TR9	ET663243	Transistor 2SC1312S(G)	2	7-C49	EC220994	Elect. 10μF 25WV	1
7-TR10	ET557976	Transistor 2SA628(E)(F)	2	7-C50	EC520468	Styrol 3300PF(J) 500WV (Tub. Type)	1
7-TR11to14	ET623733	Transistor 2SC1647(R)(S)(E)	8	7-C50	EC664874	Styrol 3400PF(J) 500WV (Tub. Type) (New Type)	1
7-TR15,16	ET635218	Transistor 2SC945L(K)(P)(Q)(R)	2	7-C51	EC290531	VFM 100PF(K) 50WV	2
7-TR17to19	ET623733	Transistor 2SC1647(R)(S)(E)	4	7-C52	EC637075	Styrol 180PF(J) 50WV	2
7-D1	ED491130	Zener Diode WZ-085	1	7-C53to55	EC320051	Elect. 10μF 16WV	6
7-D2	ED619784	Germanium Diode 1N60	2	7-C56	EC539943	Elect. 3.3μF 50WV	1
7-D3,4	ED560913	Silicon Diode 1S2473 VE	4	7-C57	EC220678	Elect. 47μF 25WV	1
7-D5	ED619784	Germanium Diode 1N60	2	7-C58	EC250604	Mylar 0.001μF(K) 50WV	1
7-D6	ED560913	Silicon Diode 1S2473 VE	2	7-C60	EC362125	Mylar 0.0056μF(K) 50WV (39)	2
7-D7	ED619784	Germanium Diode 1N60	2	Carbon Resistor Omitted			
7-D14	ED619784	Germanium Diode 1N60	2				
7-D15	ED560913	Silicon Diode 1S2473 VE	2				
7-L1	EO496350	Inductor 146LY 36 MH(J)	2				
7-L2	EO624857	Inductor GE6070A 23MH	2				
7-L4	EO243988	Ferri Inductor FL7H 3.3MH(J)	2				
7-L6	EO368403	Ferri Inductor FL9H 33MH(J)	2				
7-VR1	EV479686	Semi-fixed/Vol. V8K4-1 1 kΩ	2				
7-VR3	EV464207	Semi-fixed/Vol. V8K4-1 5 kΩ	2				
7-VR4	EV478686	Semi-fixed/Vol. V8K4-1 1 kΩ	2				
7-VR5	EV522797	Semi-fixed/Vol. V8K4-1 20kΩ	2				
7-VR6	EV499882	Semi-fixed/Vol. V10K8-4-2 300 kΩ	2				
7-T1	BT620392	Headphone Trans. S14-1235	2				
7-T2	EO496844	OSC. Coil OT-903	1				
7-SW1	ES494076	Slide SW. CL-109B	2				
		Capacitor, Vertical Type					
7-C1	EC513990	Styrol 330PF(J) 50WV	2				
7-C2	EC432810	Elect. 10μF 16WV NL	2				
7-C3	EC220127	Elect. 100μF 16WV	2				
7-C4	EC405898	Styrol 470PF(J) 50WV	2				
7-C5	EC493637	Elect. 47μF 10WV	2				
7-C6	EC556525	FM 22PF(K) 500WV	2				
7-C7,8	EC320051	Elect. 10μF 16WV	4				
7-C9	EC250683	Mylar 0.0022μF(J) 50WV	2				
7-C10	EC389485	Mylar 0.018μF(J) 50WV	2				
7-C11	EC493637	Elect. 47μF 10WV	2				
7-C12	EC313108	Elect. 1μF 50WV	2				
7-C13	EC379787	Mylar 0.0039μF(J) 50WV	2				
7-C14	EC495865	Styrol 3000PF(J) 50WV	2				
7-C15	EC250683	Mylar 0.0022μF(J) 50WV	2				
7-C16	EC313108	Elect. 1μF 50WV	2				
7-C18	EC290531	VFM 100PF(K) 50WV	2				
7-C19	EC320051	Elect. 10μF 16WV	2				
7-C20	EC313108	Elect. 1μF 50WV	2				
7-C21	EC250604	Mylar 0.001μF(K) 50WV	2				
7-C22	EC320051	Elect. 10μF 16WV	2				
7-C23	EC329883	Mylar 0.0056μF(J) 50WV	2				
7-C24	EC337500	Mylar 0.0047μF(J) 50WV	2				
7-C25	EC329861	Mylar 0.027μF(J) 50WV	2				
7-C26	EC320051	Elect. 10μF 16WV	2				
7-C27	EC523282	Solid Aluminium 0.1μF(M) 25WV	2				
7-C28	EC493637	Elect. 47μF 10WV	2				
7-C29	EC290531	VFM 100 PF(K) 50WV	2				
7-C30	EC320051	Elect. 10μF 16WV	2				
7-C31	EC523282	Solid Aluminium 0.1μF(M) 25WV	2				
7-C32	EC320051	Elect. 10μF 16WV	2				
7-C33,34	EC523282	Solid Aluminum 0.1μF(M) 25WV	4				
7-C35	EC604102	Solid Aluminum 0.33μF(K) 25WV	2				

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

8. POWER SUPPLY P.C. BOARD (CW-5213) BLOCK

Symbol No.	Parts No.	Description	Q'ty
8-1	BA636928	Power Supply P.C. Board Comp. (CW-5213)	1
8-TR1	ET635815	Transistor 2SC1449(K)(L)(M)	1
8-TR2	ET399870	Transistor 2SC711(G)	1
8-TR3	ET623790	Transistor 2SA640(E)(F)	1
8-TR4	ET517375	Transistor 2SD360(D)(E)	1
8-D1to4	ED511097	Silicon Diode 1N4001	4
8-D5	ED498150	Zener Diode WZ-192	1
8-D6to8	ED560913	Silicon Diode 1S2473 VE	3
8-D9	ED511097	Silicon Diode 1N4001	1
8-2	EZ627625	Heat-sink Plate B	1
8-3	ZS558101	Screw, pna head 3x6 w/washer	2
8-4	ZS608332	Screw, pan head 3x8, w/washer	1
Capacitor, Vertical Type			
8-C1	EC432652	Elect. 1000 μ F 35WV	1
8-C2	EC220151	Elect. 100 μ F 25WV	1
8-C3	EC220994	Elect. 10 μ F 25WV	1
8-C4to6	EC220151	Elect. 100 μ F 25WV	3
8-C7	EC487157	NP 0.47 μ F(M) 50WV	1
8-C8	EC383501	Mylar 0.001 μ F(M) 50WV	1

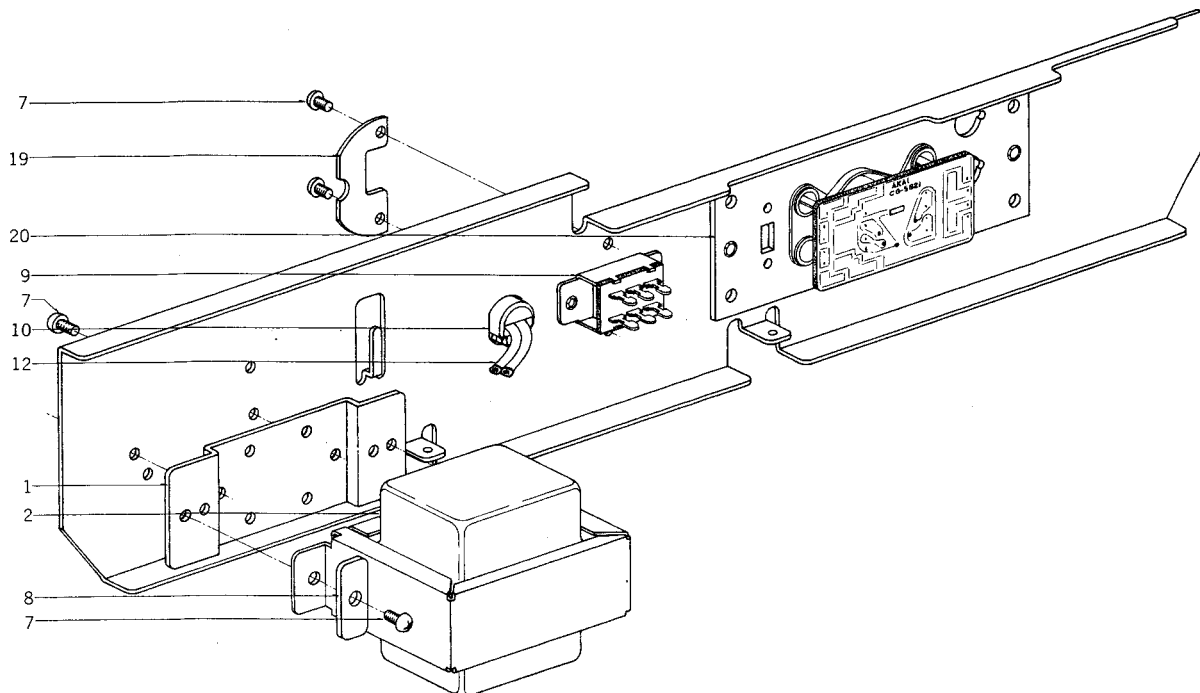
Carbon Resistor Omitted

9. MAIN AMP. P.C. BOARD (CG-5810) BLOCK

Symbol No.	Parts No.	Description	Q'ty
9-1	BA635477	Main Amp. P.C. Board Comp. (CG-5810)	1
9-TR1	ET635231	Transistor 2SC536(F)(G)	2
9-TR2	ET623801	Transistor 2SC1384(Q)(R)(S)	2
9-TR3	ET631855	Transistor 2SD325(D)(E)	2
9-TR4	ET631866	Transistor 2SB511(D)(E)	2
9-TH1	ED453655	Thermister 42D26	2
9-D1	ED635242	Verister VD1213	2
9-VR1	EV650891	Semi-fixed/Vol. V10k8-4-2 B50K	2
9-F1	EF389575	Fuse ST-4 0.7A	2
9-2	ZS421806	Screw, pan head 3x8	4
9-3	ZW273756	Nut M3	4
9-4	EJ514822	Fuse Holder, P.C. Board S-N5051	4
9-5	EZ631440	Heat-sink Plate	1
9-6	ZS325495	Tapping Screw #2 3x6	2
Capacitor, Vertical Type			
9-C1	EC350706	Elect. 4.7 μ F 16WV	2
9-C2	EC290531	VFM 100PF(K) 50WV	2
9-C3	EC321208	Elect. 220 μ F 16WV	2
9-C4	EC320051	Elect. 10 μ F 16WV	2
9-C5	EC331828	Elect. 3.3 μ F 25WV	2
9-C6	EC220364	Elect. 100 μ F 6.3WV	2
9-C7	EC331705	Elect. 22 μ F 16WV	2
9-C9	EC331817	Elect. 470 μ F 25WV	2
9-C10	EC362158	Mylar 0.0047 μ F(K) 50WV	2
9-C11	EC302264	Mylar 0.001 μ F(K) 50WV	2

Carbon Resistor Omitted

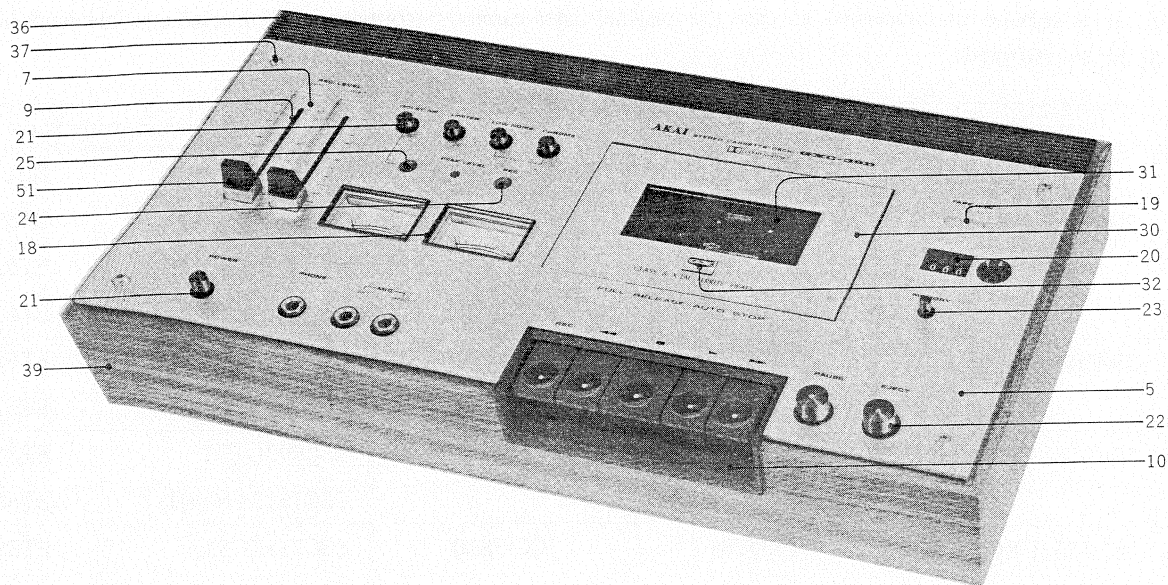
10. ILLUSTRATION OF REAR CHASSIS BLOCK



REAR CHASSIS BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty
REAR CHASSIS BLOCK				
10-1	TC612066	Trans. Table	CH-5308	1
10-2	BT631934	Power Trans. CGT-40	38-4-330	1
10-3x	BT631888	Power Trans. CGT-41 (39,39-3 core)	38-4-332	1
10-4x	BT631912	Power Trans. CGT-38 (CSA)	38-4-328	1
10-5x	BT631923	Power Trans. CGT-39 (CEE)	38-4-329	1
10-6x	BT631901	Power Trans. CGT-37 (JPN)	38-4-327	1
10-7	ZS325495	Tapping Screw #2 3x6		4
10-8	TC516598	Trans. Retainer	CS-5337	2
10-9	ES479507	Slide SW. S-3	25-3-68	1
10-10	EJ631945	Strain Relief SR-4N-4	2-7-49	1
10-11x	EZ246936	Strain Relief SR-6W-1 (3 core, CEE)	2-7-8	1
10-12	EW374894	AC Cord U/L 3M	26-3-19	1
10-13x	EW524845	AC Cord 2.5M (JPN)	26-3-31	1
10-14x	EW315448	Australia Cord (3 core)	26-3-11	1
10-15x	EW496855	AC Cord VM-0099 (CEE)	26-3-27	1
10-16x	EW604585	Power Cord BSI	26-3-37	1
10-17x	ZW273881	Earth Lug M4 (3 ore)		1
10-18x	EZ639990	Lamp Shield B	CW-1214	1
10-19	TC613697	Volt Indication Plate	CW-5018	1
JACK PLATE BLOCK				
10-20	BJ636445	Jack Plate Block Comp.		1
10-21x	BJ636434	Jack Plate Block Comp. (39)		1
10-22x	EJ624104	Jack Plate J-2	31-5-121	1
10-23x	EJ639011	Jack Plate H-4 (39)	31-5-122	1
10-24x	EA659687	P.C. Board, Jack	CG-5821	1

11. PHOTO OF FINAL ASSEMBLY BLOCK



FINAL ASSEMBLY BLOCK

Ref. No.	Parts No.	Description	Schematic No.	Q'ty	Ref. No.	Parts No.	Description	Schematic No.	Q'ty
UPPER CASE BLOCK					ASSEMBLY BLOCK				
11-1x	BC635387	Upper Case Block Comp.	CG8	1	11-36	SP631708	Upper Panel (Black)	CG-6809	1
11-2x	BC635400	Upper Case Block Comp. (CSA)	CG8	1	11-37	ZS613901	Panel Screw	CW-6031	4
11-3x	BC635376	Upper Case Block Comp. (39)	CG8	1	11-38x	ZW273767	Earth Lug D3x20L	CG-6810	1
11-4x	BC635398	Upper Case Block Comp. (39-CSA)	CG8	1	11-39	BC631776	Wood Frame	CG-6811	1
11-5	SP631754	Front Panel A	CG-6801	1	11-40x	BC631787	Lower Case	CG-6811	1
11-6x	SP631765	Front Panel B (39)	CG-6801	1	11-41x	ZS325495	Tapping Screw #2 3x6		11
11-7	SP631528	Volume Panel A	CG-6804	2	11-42x	SZ641610	Panel Cutchion	CG-6825	1
11-8x	SP631563	Volume Panel B (39)	CG-6812	1	11-43x	SM631686	Rear Name Plate E	CG-5808	1
11-9	SE631596	Volume Mask	CG-6815	1	11-44x	SM631642	Rear Name Plate A (CEE)	CG-5808	1
11-10	SE631743	Panel Escutcheon	CG-6805	1	11-45x	SM631653	Rear Name Plate B (JPN)	CG-5808	1
11-11x	SP631710	Lid Cover Base, w/spring	CG-6806	1	11-46x	SM631664	Rear Name Plate C (CSA)	CG-5808	1
11-12x	TC631541	Lid Bracket R, w/pin	CG-6808	1	11-47x	SM631697	Rear Name Plate F (39)	CG-5808	1
11-13x	ZS417216	Screw, pan head 3x4		2	11-48x	SM631675	Rear Name Plate D (39-CSA)	CG-5808	1
11-14x	TC631552	Lid Bracket L, w/pin	CG-6808	1	11-49x	TC457266	Spring Hook	CG-1077	1
11-15x	ZG632171	Return Spring B	CG-6818	1	11-50x	SE614070	Jack Plate Escutcheon	CW-6024	1
11-16x	TC631620	Cassette Table Stopper	CG-6817	1	11-51	SK569237	Slide Knob, w/ring	CP-6024	2
11-17x	SZ638392	Lid Cover Support	CG-6824	2	11-52x	SK569237	Slide Knob, w/ring (39)	CP-6024	3
11-18	SE631530	Meter Escutcheon	CG-6807	2	11-53x	SM639066	Rear Name Plate GXC-39D	CG-6510	1
11-19	SE631574	Tape Run Escutcheon (Yellow)	CG-6813	1	11-54x	SM638954	Rear Name Plate GXC-39	CG-6510	1
11-20	SE630156	Counter Escutcheon	CJ-6007	1					
11-21	SE613888	Button Escutcheon A	CW-6021	5					
11-22	SE613866	Button Escutcheon C	CW-6016	2					
11-23	SE631585	Button Escutcheon D	CG-6814	1					
11-24	SE612055	Lamp Lens A (Red)	CH-6314	1					
11-25	SE628064	Lamp Lens C (Green)	CH-6314	1					
11-26x	TC648426	Lamp Mat	CG-6826	1					
11-27x	MZ613844	Stopper	CW-6012	1					
11-28x	ZW290283	'U' Ring 2.85M	6-1-1	1					
11-29x	ZG664683	Rock Stopper Spring	CW-6044	1					
11-30	SP613855	Lid Cover Panel	CW-6014	1					
11-31	TC614068	Case Lid	CW-6013	1					
11-32	SM518310	Name Plate (GX) B	CG-6411	1					
11-33x	SE613923	Mask B	CW-6032	2					
11-34x	SE631607	Mask C	CG-6816	1					
11-35x	SE631618	Mask D	CG-6816	1					

When ordering parts, please describe Parts Number, Serial Number, and Model Number in detail.

12. LIST OF INTERCHANGEABLE SEMICONDUCTORS

As far as service is concerned, in case the original parts cannot be obtained, the interchangeable parts listed below can be substituted.

Original Parts			Interchangeable Parts	
Description	Parts No.	Utilizing P.C Board	Description	Parts No.
2SA628 (E)(F)	ET557976	CW-5214	2SA564 (Q)(R)	ET538154
			2SA733 (Q)(R)	ET538378
			2SA640 (E)(F)	ET623790
2SA640 (E)(F)	ET623790	CW-5213	2SA733 (P)(Q)	ET554657
			2SA628 (E)(F)(G)	ET619738
2SC458LG(C)(D)	ET391768	CW-5214	2SC693U (F)	ET315472
			2SC1312S (G)(H)	ET603257
2SC536(F)(G)	ET635231	CG-5810	2SC711 (G)(F)	ET398777
			2SC945L (K)(P)	ET635220
2SC711 (G)	ET399870	CW-5213	2SC945L(K)(P)	ET635220
2SC1384 (Q)(R)(S)	ET623801	CG-5810	2SC971 (2)(3)	ET304255
2SC1449 (K)(L)(M)	ET635815	CW-5213	2SD360 (D)(E)	ET517375
			2SD325 (E)(E)	ET631855
2SC1647 (R)(S)(E)	ET623733	CW-5214	2SC945L (K)(P)(Q)	ET632204
			2SC536 (F)(G)(H)	ET632215
2SC1648 (E)(U)		CW-5214	2SC1312S (G)	ET663243
2SC1648 (R)(S)(E)				
2SD360 (D)(E)	ET517375	CW-5213	2SD325 (D)(E)	ET631855
2SD325 (D)(E)	ET631855	CG-5810	2SC1098 (K)(L)	ET465208
2SB511 (D)(E)	ET631866	CG-5810	2SA636 (K)(L)	ET465265
1N4001	ED511097	CW-5213	10D05	ED494583
1S2473VE	ED560913	CW-5213	WG599	ED514721
			WG713	ED515790

INDEX

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
BA635477	9-1	EC337500	7-C38	ES389700	6-38	MR387606	2-15	TC456928	6-16
BA635488	7-1	EC348704	4-45x	ES469541	4-5	MR456761	5-48	TC456941	6-23
BA636456	7-2	EC350706	9-C1	ES477966	5-30	MR456838	5-22x	TC456952	6-24
BA636928	8-1	EC362125	7-C60	ES479507	10-9	MR456840	5-23x	TC456963	6-22
BA661037	7-3	EC362158	9-C10	ES494076	7-SW1	MS366625	1-16	TC456996	5-33
BA661048	7-4	EC368335	7-C44	ES499972	4-6x	MS387573	2-12	TC457075	6-37
BC631776	11-39	EC379787	7-C13	ES516036	5-51	MS389981	1-5	TC457097	6-28
BC631787	11-40x	EC383501	8-C8	ES539043	5-40	MS456851	5-21x	TC457200	6-45
BC635376	11-3x	EC389485	7-C10	ES619053	6-53	MS456862	5-25x	TC457233	6-40
BC635387	11-1x	EC405898	7-C4	ES631833	4-32	MS457435	6-4	TC457266	6-66
BC635398	11-4x	EC423595	7-C48	ES644242	5-67	MT370348	2-8	TC457266	11-49x
BC635400	11-2x	EC432652	8-C1	ES659643	5-32	MT370361	2-7	TC457402	6-1
BH517847	1-1x	EC432810	7-C2	ET391768	7-TR1,2	MT370372	2-9	TC461586	5-7x
BJ636434	10-21x	EC450527	7-C46	ET399870	8-TR2	MT387630	2-16	TC461878	5-5
BJ636445	10-20	EC487157	7-C39	ET517375	8-TR4	MT387641	2-17	TC467752	5-6
BM510107	3-1x	EC487157	8-C7	ET557976	7-TR5	MT394200	2-19	TC494987	3-22
BM557673	3-4	EC493637	7-C5	ET557976	7-TR10	MT457312	2-3	TC498892	5-39
BM557673	3-6x	EC493637	7-C11	ET603257	7-TR3	MV610514	3-21	TC498947	6-19
BM637176	3-2x	EC493637	7-C28	ET603270	7-TR8	MZ510017	3-7	TC515518	5-53
BM637198	3-3x	EC493637	7-C37	ET623733	7-TR4	MZ595675	5-35	TC515575	6-8
BM646222	3-5x	EC495865	7-C14	ET623733	7-TR7	MZ613844	11-27x	TC516306	3-9
BR451686	2-2x	EC513990	7-C1	ET623733	7-TR11to14	MZ629998	6-14	TC516598	4-48x
BR451697	2-1x	EC514743	6-34	ET623733	7-TR17to19	MZ631350	5-29	TC516598	10-8
BT620392	7-T1	EC520468	7-C50	ET623790	8-TR3	MZ631361	6-52	TC518117	5-57
BT631888	10-3x	EC523282	7-C27	ET623801	9-TR2	MZ631372	6-56	TC612066	4-46x
BT631890	4-47x	EC523282	7-C31	ET631855	9-TR3	MZ631405	6-50	TC612066	10-1
BT631901	10-6x	EC523282	7-C33,34	ET631866	9-TR4	MZ631427	6-60	TC612112	4-28
BT631912	10-4x	EC539943	7-C56	ET635218	7-TR15,16	MZ631631	6-18	TC613697	10-19
BT631923	10-5x	EC551160	4-8	ET635231	9-TR1	MZ659790	5-64	TC613776	4-36
BT631934	10-2	EC556525	7-C6	ET635815	8-TR1	MZ668351	5-59	TC614068	11-31
BZ459966	5-1x	EC604102	7-C35	ET663243	7-TR6	SB499195	5-41	TC627603	3-19
BZ592154	5-19	EC637075	7-C52	ET663243	7-TR9	SB457413	6-2	TC631416	5-27
BZ631980	4-3	EC664874	7-C50	EV453396	4-29	SB613495	6-12	TC631438	6-32
EA516047	5-52	ED453655	9-TH1	EV453420	4-30x	SB613506	6-13	TC631473	4-23
EA612178	4-9	ED491130	7-D1	EV464207	7-VR3	SB613618	6-55	TC631484	4-1
EA612180	6-33	ED498150	8-D5	EV478686	7-VR1	SB461406	6-3	TC631495	4-44
EA614158	4-35	ED560913	7-D3,4	EV478686	7-VR4	SB614428	4-2	TC631506	4-49x
EA614788	4-10x	ED560913	7-D6	EV499882	7-VR6	SE612055	11-24	TC631541	11-12x
EA631383	6-57	ED560913	7-D15	EV522797	7-VR5	SE613866	11-22	TC631552	11-14x
EA659687	10-24x	ED560913	8-D6to8	EV650891	9-VR1	SE613888	11-21	TC631620	11-16x
EC220127	7-C3	ED511097	8-D1to4	EW315448	10-14x	SE613923	11-33x	TC648426	11-26x
EC220151	8-C2	ED511097	8-D9	EW374894	10-12	SE614070	11-50x	TC648437	4-40
EC220151	8-C4to6	ED522887	4-34	EW496855	10-15x	SE628064	11-25	ZG224796	5-34
EC220364	9-C6	ED619784	7-D2	EW524845	10-13x	SE630156	11-20	ZG227452	5-61
EC220678	7-C57	ED619784	7-D5	EW604585	10-16x	SE631530	11-18	ZG367301	6-44
EC220994	7-C49	ED619784	7-D7	EZ246936	10-11x	SE631574	11-19	ZG369112	5-63
EC220994	8-C3	ED619784	7-D14	EZ255317	4-26	SE631585	11-23	ZG385075	2-6
EC250604	7-C21	ED635242	9-D1	EZ627625	8-2	SE631596	11-9	ZG387584	2-14
EC250604	7-C58	EF375647	4-16x	EZ631440	9-5	SE631607	11-34x	ZG387821	6-48
EC250683	7-C9	EF389575	9-F1	EZ638965	6-35x	SE631618	11-35x	ZG392804	5-3
EC250683	7-C15	EF511626	4-14x	EZ639990	10-18x	SE631743	11-10	ZG456186	6-20
EC250841	7-C45	EF550618	4-17x	HE364318	1-20x	SK569237	11-51	ZG456930	6-17
EC290531	7-C18	EF563670	4-19x	HE656098	1-21x	SK569237	11-52x	ZG456985	5-36
EC290531	7-C29	EF563681	4-13	HL457391	1-3	SK607127	4-43	ZG457380	1-7
EC290531	7-C51	EF563692	4-18x	HP564085	1-13	SM477358	6-42x	ZG459224	5-9
EC290531	9-C2	EF575932	4-15x	HZ457323	1-2	SM518310	11-32	ZG460484	5-38
EC290564	5-54	EJ510333	4-37x	HZ457367	1-9	SM631642	11-44x	ZG465636	1-12
EC302264	9-C11	EJ510333	5-58	MB456660	3-14	SM631653	11-45x	ZG469315	5-49
EC313108	7-C12	EJ514607	4-38x	MB456895	5-17	SM631664	11-46x	ZG494381	5-66
EC313108	7-C16	EJ514822	4-11x	MB613258	6-59	SM631675	11-48x	ZG494403	6-65
EC313108	7-C20	EJ514822	4-12x	MC631844	6-49	SM631686	11-43x	ZG514440	6-9
EC320040	7-C42	EJ555794	4-41	MH457255	6-43	SM631697	11-47x	ZG514697	6-31
EC320051	7-C7,8	EJ618805	4-4x	MH494414	6-64	SM638954	11-54x	ZG516418	6-25
EC320051	7-C19	EJ621415	4-20x	MI456658	3-12	SM639066	11-53x	ZG627513	6-41
EC320051	7-C22	EJ624104	10-22x	MI456750	5-46	SP613855	11-30	ZG632171	11-15x
EC320051	7-C26	EJ631462	6-63	MI461891	5-8	SP631528	11-7	ZG639720	6-7
EC320051	7-C30	EJ631945	10-10	ML462690	5-4x	SP631563	11-8x	ZG664683	11-29x
EC320051	7-C32	EJ639011	10-23x	ML456693	5-44	SP631708	11-36	ZS201407	1-24x
EC320051	7-C40	EL603268	4-25	ML456783	5-2	SP631710	11-11x	ZS322626	3-18
EC320051	7-C43	EL603268	6-58	ML456827	5-20x	SP631754	11-5	ZS325495	4-24
EC320051	7-C53to55	EL621167	4-27	ML457110	6-36	SP631765	11-6x	ZS325495	5-28
EC320051	9-C4	EM631822	4-21	ML457132	6-30	SZ629921	5-26	ZS325495	6-15
EC321208	7-C36	EO243988	7-L4	ML457424	6-6	SZ638392	11-17x	ZS325495	9-6
EC321208	9-C3	EO368403	7-L6	ML483906	6-47	SZ641610	11-42x	ZS325495	10-7
EC329861	7-C25	EO496350	7-L1	ML629932	5-60	SZ650935	4-22	ZS325495	11-41x
EC329883	7-C23	EO496844	7-T2	ML629943	5-62	TC387268	3-16	ZS356804	3-8
EC331705	9-C7	EO624857	7-L2	ML630448	5-45	TC389790	2-5	ZS375118	1-23
EC331817	9-C9	EP494425	6-61	ML631451	6-26	TC399071	1-27	ZS379350	4-33
EC331828	9-C5	ER419040	4-39x	ML632182	6-29	TC456671	3-20	ZS417148	3-10
EC337500	7-C24			MP468292	1-4	TC456682	3-15	ZS417161	1-19

INDEX

Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.	Parts No.	Ref. No. & Symbol No.
ZS417216	11-13x	ZS608332	8-4	ZW364342	2-4	ZW601762	2-11x		
ZS417273	5-37	ZS613901	11-37	ZW381644	5-24x				
ZS421806	9-2	ZW259795	5-10	ZW391397	1-6				
ZS422076	4-7	ZW259885	6-27	ZW391397	5-14				
ZS422076	4-31	ZW259986	6-21	ZW413256	1-26x				
ZS432674	1-25x	ZW270088	1-8	ZW414235	1-14				
ZS442585	5-43x	ZW270088	2-18	ZW414246	1-15				
ZS444330	1-10	ZW270088	6-11	ZW421007	5-11x				
ZS460440	6-54	ZW270123	5-13x	ZW452373	6-10				
ZS461261	5-31	ZW273688	1-18	ZW461248	5-50				
ZS461261	6-39	ZW273756	3-11	ZW461272	3-13				
ZS461395	1-17	ZW273756	9-3	ZW474581	5-15				
ZS462881	5-56	ZW273767	5-68x	ZW474581	5-47x				
ZS462947	1-11	ZW273767	11-38x	ZW474592	5-16				
ZS464692	3-23	ZW273881	10-17x	ZW474603	5-18				
ZS464703	5-42	ZW290283	5-12	ZW478991	3-17				
ZS478697	5-65	ZW290283	6-5	ZW516251	5-55				
ZS481645	6-62	ZW290283	11-28x	ZW559135	4-42				
ZS483456	6-51	ZW316800	1-22x	ZW562476	6-46x				
ZS558101	8-3	ZW355307	2-13	ZW601751	2-10x				

SECTION 3

SCHEMATIC DIAGRAM

1. GXC-39D SCHEMATIC DIAGRAM
2. GXC-39 SCHEMATIC DIAGRAM

GXC-39D

